

# HANDBOOK OF INFORMATION 2017

• COURSES OFFERED • RULES OF ADMISSION

तमसो मा ज्योतिर्गमय

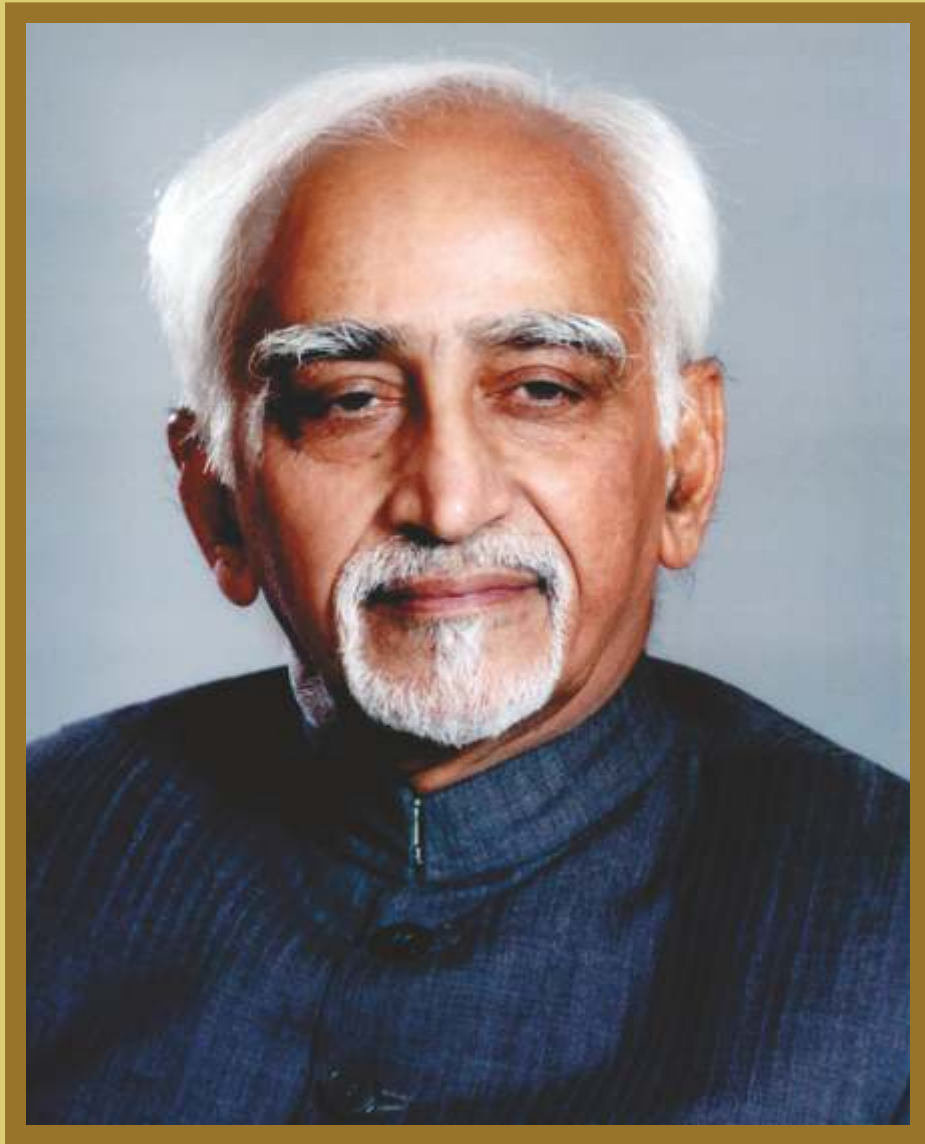


**PANJAB UNIVERSITY  
CHANDIGARH**

Nobel Laureate Roger D. Kornberg, Professor of Medicine & Structural Biology  
Stanford University, California (USA)



Hon'ble Shri M. Hamid Ansari, Vice President of India and Chancellor, PU  
Chief Guest, 66<sup>th</sup> Annual Convocation-2017



*Hon'ble Shri M. Hamid Ansari, Vice President of India and  
Chancellor, Panjab University, Chandigarh*



# Vice Chancellor's Message



Established in 1882 at Lahore, Panjab University (PU) has always been a premier centre of higher education committed to the creation and dissemination of knowledge through effective teaching, learning and research activities. The teaching departments of the university reassembled and developed at its well architected present campus at Chandigarh in 1956 have built up an unenviable reputation for the university. By virtue of these traits, PU attracts the best students from schools, colleges and aspiring researchers who have qualified in national level examinations conducted by different agencies. PU stands recognized as a comprehensive national university, with a global reputation, committed not only to advancing academic goals but also upholding humanistic culture and grooming the moral character of our society's future torch bearers.

PU offers an intellectually and morally inspiring environment that enables the teachers and students to sincerely engage with their continuous and constant quest for 'swaraj' (self-rule) of ideas and ethical actions through excellence in teaching, learning and path-breaking research. The infrastructural, ICT, Internet/Wi-Fi and sports facilities are not only good but are also continuously upgraded to ensure all round development of the students. Well deserved accomplishments and accolades of faculty, staff and students as well as their deep commitment to intellectual enquiry, sharpening of their analytical thinking and strong alumni networking worldwide are hallmarks of PU as a premier institution.

As technology evolves rapidly in the 21<sup>st</sup> century, the body of knowledge in many domains is enhancing dramatically. Curriculum reforms have been selectively carried out to ensure flexibility so that participants operate in a way that adds value to the lives of students by making them life-long learners and contributes to the greater community. Networking with foreign as well as the institutions in our neighbourhood is providing a platform for guiding the student's discovery, understanding, and decision-making abilities regarding learning and development opportunities in the formal curriculum and the community engagement. In addition, we strive for improving soft skills of the students so that they succeed in the emerging globalised environment. We resolve to remain committed to sustain and enhance the competitiveness of PU as Centre of Excellence in higher education globally.

*Handbook of Information 2017* contains a wealth of information about various programmes being offered by departments, eligibility conditions, rules of admission, fees, scholarships and facilities available at PU and its regional campuses.

I extend a cordial welcome to all the students aspiring to join the University and wish them a promising and successful professional career and life.

(Arun K. Grover)



## OFFICERS AND DEANS OF PANJAB UNIVERSITY

<b>Vice Chancellor</b>	Professor Arun K. Grover	2541945
<b>Dean of University Instruction</b>	Professor Dinesh K. Gupta	2541156
<b>Director, RPC</b>	Professor O.P. Katare	2540535
<b>Honorary Director, IQAC</b>	Professor M. Rajivlochan	2534074
<b>Chief Vigilance Officer</b>	Professor Meenakshi Malhotra	2534843
<b>Associate Director, RPC</b>	Professor Ramanjit Kaur Johal	2534535
<b>Associate Director, IQAC</b>	Professor Archana Bhatnagar	2534074
<b>Registrar</b>	Col. G.S. Chadha (Retd.)	2541716
<b>Controller of Examination</b>	Professor Parvinder Singh	2541825
<b>Finance &amp; Development Officer</b>	CA Vikram Nayyar	2541850
<b>Dean of Student Welfare</b>	Professor Emanuel Nahar	2541596
<b>Dean of Student Welfare (Women)</b>	Professor Neena Capalash	2541596
<b>Associate Dean of Student Welfare</b>	Professor Rattan Singh	2534488
<b>Dean of International Students</b>	Professor Deepti Gupta	2541873
<b>Dean of Alumni Relations</b>	Professor Anil Monga	2541881
<b>Dean, College Development Council</b>	Professor Parvinder Singh	2541943
<b>Librarian</b>	Dr. Raj Kumar	2534551
<b>Director, Dr. A.P.J. Abdul Kalam Computer Centre</b>	Professor Ravinder Kumar Singla	2534077
<b>Honorary Director, Academic Staff College</b>	Professor Karamjeet Singh	2541425
<b>Chief Medical Officer</b>	Dr. D. Dhawan	2534477
<b>Director Public Relations</b>	Ms. Renuka B. Salwan	2541054
<b>Chief of University Security</b>	Professor Ashwani Koul	2534289
<b>Director, Physical Education &amp; Sports</b>	Dr. Parminder Singh Ahluwalia	2541042
<b>Director Youth Welfare</b>	Dr. Nirmal Singh Jaura	2784448
<b>Programme Coordinator NSS</b>	Mrs. Navdeep Sharma	2541798
<b>Co-ordinator Swach Bharat Abhiyan</b>	Professor Seema Kapoor	2534921

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## Shaan-O-Shauqat PANJAB UNIVERSITY ANTHEM

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 पंजाब विश्वविद्यालय  
 तेरी शान-ओ-शौकत सदा रहे  
 मन में तेरा आदर मान  
 और मोहब्बत सदा रहे  
 पंजाब विश्वविद्यालय  
 तेरी शान-ओ-शौकत सदा रहे  
 तू है अपना भविष्य विधाता  
 पंख बिना परवाज़ सिखाता  
 जीवन पुस्तक रोज़ पढ़ा कर  
 सही गलत की समझ बढ़ाता  
 जीवन पुस्तक रोज़ पढ़ा कर  
 सही गलत की समझ बढ़ाता  
 तेरी जय का शंख बजायें  
 रौशन तारे बन जायें  
 वखरी तेरी शोहरत  
 तेरी शोहरत सदा सदा रहे  
 पंजाब विश्वविद्यालय  
 तेरी शान-ओ-शौकत सदा रहे  
 पंजाब विश्वविद्यालय  
 तेरी शान-ओ-शौकत सदा रहे  
 तमसो मा ज्योतिर्गमयः  
 तमसो मा ज्योतिर्गमयः

Tamso ma jyotirgamaya  
 Tamso ma jyotirgamaya  
 Tamso ma jyotirgamaya  
 Tamso ma jyotirgamaya  
 Panjab vishaw vidyalaya  
 Teri shaan-o-shauqat sada rahe  
 Mann mein tera aadar maan  
 Aur mohabbat sada rahe  
 Panjab vishaw vidyalaya  
 Teri shaan-o-shauqat sada rahe  
 Tu hai apna bhavishya vidhata  
 Pankh bina parwaaz sikhata  
 Jeevan pustak roz padha kar  
 Sahi galat ki samajh badhata  
 Jeevan pustak roz padha kar  
 Sahi galat ki samajh badhata  
 Teri jai ka shankh bajayein  
 Roshan tare ban jaayein  
 Vakhari teri shohrat  
 Teri shohrat sada sada rahe  
 Panjab vishaw vidyalaya  
 Teri shaan-o-shauqat sada rahe  
 Panjab vishaw vidyalaya  
 Teri shaan-o-shauqat sada rahe  
 Tamso ma jyotirgamaya  
 Tamso ma jyotirgamaya

### IMPORTANT INSTRUCTIONS

1. Candidates are advised to visit the website <http://admissions.puchd.ac.in> for admission related Notices, Updates and various websites for admission purposes.
2. Candidates seeking admission to select courses offered by Teaching Departments and Regional Centres of Panjab University shall fill online Admission Form, complete in all respects on or before the prescribed last date of submission of Admission Form.
3. Candidates are advised to apply for admission irrespective of the fact whether the result of the lower examination or Entrance Test has been declared or not. A candidate who does not apply till the last date, he/she will not be considered for the admission. However, a candidate whose result of the lower examination or Entrance Test has not been declared till the last date of submission of Admission Form and who applies for admission will be allowed to participate in the admission process after declaration of result.
4. Prescribed Fees, Funds and charges shall be payable by the candidates.
5. Once a candidate has been admitted to a course, his/her certificates/testimonials will be kept by the Department for registration/verification purposes. However, on written request of the candidate, certificates/testimonials can be given back to the candidate for a reasonable period.
6. Candidates seeking refund of admission fee and other charges will have to follow General Refund of Fee Rules provided in the Handbook of Information.
7. Those students who secure 1<sup>st</sup> position in General, SC/ST, Women Categories in PU-CET(UG) Entrance Test, will be exempted from payment of tuition fee during first year.
8. Students are expected to regularly attend classes/tutorials/practicals/field work etc. Rules regarding Condonation of Shortage of Lectures are listed in Handbook of Information.
9. The confidential result of the examination shall be accepted for the purposes of admission.
10. A printed copy of the result download from official website of University/Board/Institute shall be considered only if it is duly verified by the competent authority of the institute/college/university last attended. However, the candidate will have to produce original DMC/Degree within 15 days from the date of admission.
11. The admission of the candidate will be cancelled and legal action will be taken if there is any concealment/misrepresentation of information in Admission Form or in the attached certificates/undertakings/documents etc.
12. Admission to all the courses are governed by the Rules and Regulations for admission as approved by the relevant bodies of the university from time to time.
13. No student shall be allowed to be on the rolls of two-degree programmes simultaneously.
14. Admission of all such students who fail to attend at least 33% of the total lectures/tutorials/practicals etc. delivered/held in each paper during the first ten working days from the start of teaching work shall be cancelled by the Board of Control/Joint Admission Cell.

#### Fee to be charged for Online Application Form for Admission

Sr.No.	Particulars	Fee to be charged (Rs.)
<b>Candidate can apply for 4 courses only on one Admission Form</b>		
1	For online application for admission to 1 course	300
2	For online application for admission to 2 courses	400
3	For online application for admission to 3 courses	500
4	For online application for admission to 4 courses	600
<b>Candidate intending to apply for more than 4 courses is required to submit another Admission Form</b>		
		<b>Additional Fee to be charged (Rs.)</b>
1	For online application for admission to 5 <sup>th</sup> course	300
2	For online application for admission to 6 <sup>th</sup> course	400
3	For online application for admission to 7 <sup>th</sup> course	500
4	For online application for admission to 8 <sup>th</sup> course	600
<b>Candidate intending to apply for more than 8 courses is required to submit yet another Admission Form with the above mentioned additional fee per additional course.</b>		
<b>50% concession to SC/ST/PwD candidates in application fee</b>		

**IMPORTANT DATES FOR ADMISSIONS****Session 2017-2018**

	<b>Class/Course</b>	<b>Admission without late fee</b>	<b>Late Admission with permission of the Chairperson with late fee of Rs.560/-</b>	<b>Late Admission with permission of the V.C. with late fee of Rs.2040/-</b>
	<b>(1)</b>	<b>(2)</b>	<b>(3)</b>	<b>(4)</b>
I.	1 <sup>st</sup> Year of Post-Graduate Degree Courses & Under-Graduate Degree Courses (except BE courses, and B.Sc (Hons) / B.Pharm courses under PU-CET(UG) and LL.B) and ongoing classes*	10.07.2017 (Monday) to 22.07.2017 (Saturday)	24.07.2017 (Monday) to 31.07.2017 (Monday)	01.08.2017 (Tuesday) to 14.08.2017 (Monday)
II	Certificate/Diploma/Advance Diploma Courses	18.07.2017 (Tuesday) to 27.07.2017 (Thursday)	28.07.2017 (Friday) to 03.08.2017 (Thursday)	04.08.2017 (Friday) to 14.08.2017 (Monday)

\* Ongoing classes of 3<sup>rd</sup>/ 5<sup>th</sup>/ 7<sup>th</sup>/ 9<sup>th</sup> semesters will start from 10.07.2017 (Monday). In case of ongoing classes, each student whose result of the lower semester/class has not been declared, shall have to seek provisional admission with an undertaking to the effect that his/her admission shall stand cancelled if he/she fails to meet the eligibility requirement(s) for promotion to the next higher semester/class as per the rules and regulations of the course. Counting of attendance for the purpose of calculation of shortage of lectures will be made from 10.07.2017. If such a candidate seeks provisional admission after this date, his/her attendance will still be counted from 10.07.2017 and not from the date on which he/she seeks provisional admission. The candidate after the declaration of result of lower semester/class will have to deposit the due fees within ten days of declaration of result in order to get his/her admission confirmed.

1. All Teaching Departments/Regional Centres should strictly adhere to the dates of admissions as indicated above. In any case, no admission shall be made before the dates of normal admission as specified above and after 14.08.2017.
2. The Vice Chancellor may permit late admission up to the date specified in the above-mentioned admission schedule on payment of late fee of Rs. 2040/-. While recommending such applications for prior permission of the Vice-Chancellor, it may be ensured that the late fee has been remitted by the candidate and his /her request carries Receipt No. and date.
3. Prior permission of the Vice Chancellor is necessary for admission after the expiry of the last date as indicated in Column 3 above. If such permission is not sought and the admission is made in anticipation of the approval of the Vice Chancellor, *post facto* permission shall not be given.
4. Admission process will continue on all Saturdays and public holidays, if any, which fall during the days of admission without late fee. So, all teaching departments/Regional Centres shall remain open on 15.07.2017 (Saturday), 22.07.2017 (Saturday) and on Public Holiday(s), if any. Further, the office of the Campus Sports shall remain open on 09.07.2017 (Sunday) also.
5. All Teaching Department/Regional Centers should get Schedule of Counseling-cum-Admission approved from the DUI in the prescribed format.

**Process of cancellation of admission of the students of 1<sup>st</sup> Semester who have not attended at least 33% of lectures delivered in the first 10 working days**

1 <sup>st</sup> day	Date of commencement of classes	10 <sup>th</sup> July 2017*	24 <sup>th</sup> July 2017**
10 <sup>th</sup> day	Date for collection of attendance of first 10 working days from the Faculty	21 <sup>st</sup> July 2017	4 <sup>th</sup> August 2017
12 <sup>th</sup> day	Date of display of List of Students who have not attended at least 33% of lectures and inviting the reasons for absence	24 <sup>th</sup> July 2017	7 <sup>th</sup> August 2017
16 <sup>th</sup> day	Last date of submission of reasons of absence by the students in writing	27 <sup>th</sup> July 2017 (upto 3.00 P.M.)	10 <sup>th</sup> August 2017 (upto 3.00 P.M.)
16 <sup>th</sup> day	Date of Board of Control Meeting to evaluate and decide about the validity of the reasons / justification	27 <sup>th</sup> July 2017 (4.00 P.M.)	10 <sup>th</sup> August 2017 (4.00 P.M.)
16 <sup>th</sup> day	Date of display of Vacant Seats on Physical and Online Notice Board of the department	27 <sup>th</sup> July 2017 (5.00 P.M.)	10 <sup>th</sup> August 2017 (5.00 P.M.)
	Date of filling up of Vacant Seats	28 <sup>th</sup> July 2017	12 <sup>th</sup> August 2017
	- General Category	9.00 A.M. to 12.00 noon	9.00 A.M. to 12.00 noon
	- Reserved Categories and Additional Seats	12.00 noon to 1.00 P.M.	12.00 noon to 1.00 P.M.
	- De-reservation of SC/ST/BC/SP/Def/PwD/TV/FF Seats	2.00 P.M. to 2.30 P.M.	2.00 P.M. to 2.30 P.M.
	- Filling up of Vacant Seats in General Category (after de-reservation)	3.00 P.M. to 5.00 P.M.	3.00 P.M. to 5.00 P.M.
	Last date for deposit of fee (with late fee)	29 <sup>th</sup> July 2017	14 <sup>th</sup> August 2017

Departments/Regional Centers can continue to make fresh admissions even after 10.07.2017/24.07.2017 as per the Late Admission criteria. However, the above-listed process is to be applied on only those students whose admission has been made prior 10.07.2017/24.07.2017 and were required to start attending classes from 10.07.2017/24.07.2017.

\* MBA programs of UBS-Chandigarh, UBS-Ludhiana, UIAMS-Chandigarh; B.A.LL.B./B.Com.LL.B ; BHMCT and BTTM.

\*\* All courses other than the ones listed at \* above.

**For the information of candidates applying in online mode of admission  
in the Reserved Category of Sports**

Each candidate applying for admission in this category will take a print out of the online Admission Form and submit self-attested photocopies of the relevant certificates and undertakings as per 'Guidelines for Admission to the Reserved Category of Sports' to the office of the Campus Sports, (Gymnasium Building, Jawaharlal Nehru Complex), P.U. Chandigarh before the last date of submission of Admission Form. If the candidate fails to submit the Form complete in all respect in the office of the Campus Sports, his candidature under Sports Category will be rejected.

**Academic Calendar for the session 2017-2018 for the Panjab University Teaching Departments/ Regional Centres having Semester System of Examination :**

<b>Summer Vacation</b>	01-06-17 (Thursday)	To	09-07-17 (Sunday)	(39 days)
<b>Academic Calendar</b>				
Teaching Departments and Regional Centers of the University Open on	10-07-17 (Monday)			
<b>Admission Schedule</b>				
Normal Admission for ongoing and new classes (except for those classes in which admission is through PU-CET (U.G & P.G))	10-07-17 (Monday)	To	22-07-17 (Saturday)	(12 days)
Late Admission for ongoing classes and new classes to be allowed by the Chairperson of the University Teaching Department/Regional Centres with late fee of <b>Rs. 560/-</b> per student.	24-07-17 (Monday)	To	31-07-17 (Monday)	(07 days)
Admission for B.Sc. (Hons.) & B.Pharm through PU-CET(UG)	18.07.17 (Tuesday)	To	08.08.17 (Tuesday)	
<b>Commencement of teaching:</b>				
(i) For ongoing classes <sup>1</sup>	10-07-17 (Monday)			
(ii) For new admission classes <sup>2</sup> (including PU-CET (U.G & P.G))	24-07-17 (Monday)			
Late admission in the University Teaching departments/Regional Centers to be allowed by the Vice Chancellor with late fee of <b>Rs.2040/-</b> per student.	01-08-17 (Tuesday)	To	14.08-17 (Monday)	(12 days)
<b>Academic Term-I (a)</b>				
Odd semesters	10-07-17 (Monday)	To	29-09-17 (Friday)	(58 Teaching days)
Autumn Break	30-09-17 (Saturday)	To	09-10-17 (Monday)	(10 days)
<b>Academic Term-I (b)</b>	10-10-17 (Tuesday)	To	01-12-17 (Friday)	(36 Teaching days)
<b>Total Teaching days of Academic Term I=58+36=94 days</b>				
<b>End Semester Examinations</b>	02-12-17 (Saturday)	To	21-12-17 (Thursday)	(17 days including Saturdays)
<b>Semester vacation (Winter Break)</b>	22-12-17 (Friday)	To	03-01-18 (Wednesday)	(13 days)

**Academic Term-II Even semesters**

<b>University reopens after Semester Examination</b>	04-01-18 (Thursday)	To	17-05-18 (Thursday)	( 86 Teaching days)
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**Total Teaching days of Academic Term II=86 days**

<b>End Semester Examinations</b>	18-05-18 (Friday)	To	01-06-18 (Friday)	(13 days including Saturdays)
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<b>Summer vacation (tentative)</b>	02-06-18 (Saturday)	To	08-07-18 (Sunday)	(37days)
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**Total Teaching days of academic term I & II 94+86=180 days**

<sup>1</sup> Ongoing classes of 3<sup>rd</sup>/ 5<sup>th</sup>/ 7<sup>th</sup>/ 9<sup>th</sup> semesters will start from 10.07.2017 (Monday) and classes of 2<sup>nd</sup>/ 4<sup>th</sup>/ 6<sup>th</sup>/ 8<sup>th</sup>/ 10<sup>th</sup> semesters will start from 04.01.2018 except for those departments which have got the date of start of classes approved earlier than this date. In case of ongoing classes, each student whose result of the lower semester/class has not been declared, shall have to seek provisional admission with an undertaking to the effect that his/her admission shall stand cancelled if he/she fails to meet the eligibility requirement(s) for promotion to the next higher semester/class as per the rules and regulations of the course. Counting of attendance for the purpose of calculation of shortage of lectures will be made from 10.07.2017 and 04.01.2018 respectively. If such a candidate seeks provisional admission after these dates, his/her attendance will still be counted from 10.07.2017 or 04.01.2018 and not from the date on which he/she seeks provisional admission. The candidate after the declaration of result of lower semester/ class will have to deposit the due fees within ten days of declaration of result in order to get his/her admission confirmed.

<sup>2</sup> Except MBA courses of UBS, UIEMS, B.A. LL.B, B.Com. LL.B, B.E.

**Note:**

- 1. The Departments/Regional Centers are free to fix the dates of test/Sessionals as per their convenience. Adjustments, if any, in the Semester schedule of certain University Teaching Departments and Regional Centers may be allowed by the Dean of University Instruction in special cases**
- 2. Candidates seeking admission under Reserved Category of Sports are advised to go through the Schedule of the Trials at Annexure V of Guideline for Reserved Category of Sports.**

<p><b>Faculty members are available in the respective Departments for consultation and guidance of students from 3:00 P.M to 4:00 P.M on working days.</b></p>
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## PANJAB UNIVERSITY - A PROFILE

### BRIEF HISTORY

Ensnconced in the verdurous lap of the Shivalik foothills, Panjab University (PU), one of the oldest and most prestigious Universities in India, now situated at Chandigarh, the city beautiful, was established at Lahore in 1882. In consonance with the Upanishadic vision of “Asato Ma Sadgamaya/Tamaso Ma Jyotirgamaya (Lead me from untruth to truth/ Lead me from darkness to light), it has a long tradition of pursuing excellence in teaching and research in science and technology, humanities, social sciences, performing arts and sports-leading to a true “swaraj ( self-rule)” of ideas, knowledge and action.

The University nurtures noble ideas, creativity, and innovation in its wide-ranging academic programmes covering different fields of knowledge and scholarship. The University is committed to attract and support the best students and faculty, who excel at learning, teaching and research. Panjab University with its Campus at Chandigarh and nearly two hundred colleges in Punjab state and Chandigarh U.T., has long been serving the cause of higher education and addressing the various social-civilisational needs and aspirations with distinction. The glorious “parampara” (tradition/s) of the University established during the period of more than 136 years ago, is a source of perpetual inspiration for the present generation of faculty members and students. By virtue of its history, experience, achievements and philosophy, the University has carved a niche for itself as a premiere centre of learning and research both at national and international levels drawing students from all over the country and different parts of the globe in accordance with the Indian vision of “lokasamgraha (the welfare of the world).” Its faculty includes some of the most distinguished scientists and academicians. Over the years, the reputation of the University has grown as an institution making significant advancement in innovative teaching, research and community outreach.

- NAAC Accredited A-Grade University with a score of 3.35 out of 4 in the year 2015.
- Ranked number one amongst Universities in India and Ranked 363 in the Thomson Reuters-powered ‘Best Global Universities Rankings 2016’ by US News and Global Report.
- Ranked 38 in Asia Times Higher Education Asian University Rankings, 2015 and ranked in the bracket 111-120 in the year 2016.
- Ranked in the bracket 501-600 internationally in the Times Higher Education World University Rankings, 2015-2016.
- QS Asian Universities Ranking in the bracket 201-250 for the year 2015-16.
- NIRF 2016: Ranked 12<sup>th</sup> among the Indian Educational Institutes, 2<sup>nd</sup> among the Universities.
- Best University Campus Award-2016 by ASSOCHAM. Earlier, it was awarded Best Government University in India Award-2014 by ASSOCHAM.

### THE CAMPUS

In Chandigarh, the newly built capital of Punjab, a beautiful red sandstone campus was designed for the Panjab University by the eminent modern architects - Pierre Jeanneret under the general guidance of Le Corbusier. Panjab University moved here during 1958-1960. Till the re-organisation of Punjab in 1966, the University had its regional centres at Rohtak, Shimla and Jalandhar and its affiliated colleges were located in the States of Punjab, Haryana and Himachal Pradesh and the Union Territory of Chandigarh. With the re-organization of Punjab, the University became an Inter-State Body Corporate subsequent to the creation of separate Punjab and Haryana states.

### INFRASTRUCTURE

Panjab University is located in Sector 14 and Sector 25 of Chandigarh, spread across an area of almost 550 acres. The layout of two fibre-connected and Wi-Fi campuses of the University has been conceived to meet the academic, administrative, sports/recreational, residential and other requirements of a growing University. To make it self-contained, infrastructural facilities like its own Shopping Centre, Health Centre, Bank, Post Office, Swimming Pool, Gymnasium, Sports Grounds, Botanical Gardens, well maintained parks, Open Air Theatre, Guest Houses, Faculty House, Seminar Complexes, Alumni House, Community Centre and a school, have been provided. Besides these facilities, the University Campus has 8 hostels for boys, 9 hostels for girls, 1 Working Women Hostel, 1 International Hostel and 2 Sports hostels.

A cluster of prominent buildings like Gandhi Bhawan, Fine Arts Museum, University Library and the Student Centre form the

hub of social interaction. Gandhi Bhawan, Student Centre, the University Library and the Administrative Block are also considered part of the architectural heritage of Chandigarh, being examples of modernism in architecture as it was interpreted by Le Corbusier and those who worked with him.

Fine Arts Museum, with its series of small galleries arranged around a courtyard, each gallery having a hyperbolic paraboloid roof (umbrella shaped), is not only an architectural but a structural marvel as well.

### TEACHING DEPARTMENTS/CENTRES

Panjab University Campus at Chandigarh accommodates 77 teaching and research departments/institutes/ centres besides 9 Chairs for research. Furthermore, the university has 193 affiliated and 6 constituent colleges spread over Punjab and Chandigarh besides Regional Centres at Muktsar, Ludhiana, Hoshiarpur and Kauni. In addition, there is Vishveshvaranand Vishwa Bandhu Institute of Sanskrit and Indological Studies at Hoshiarpur. The academic institutes on the campus and four Regional Centres are grouped under the Faculties of Arts, Science, Languages, Law, Education and Fine Arts, Business Management and Commerce, Engineering and Technology, Medical Sciences, Pharmaceutical Sciences, and Dairying, Animal Husbandry and Agriculture. Most of the departments have their own specialized libraries, and the working period runs for at least 180 days in a year.

The Department of Evening Studies, a multi-disciplinary research centre, offers teaching and research facilities to more than 1000 students.

The University School of Open Learning, a multi-disciplinary department, caters to more than 22,000 distance learners and offers 23 traditional and job oriented courses.

### CENTRES OF EXCELLENCE

**Centre for Advanced Study (CAS):** Departments of Chemistry, Geography, Geology, Mathematics, Physics, Political Science, Sociology, University Institute of Pharmaceutical Science and Zoology.

**Special Assistance Programme (SAP)/Departmental Research Support (DRS):** Departments of Biotechnology, Botany, Economics, English and Cultural Studies, SSB University Institute of Chemical Engineering & Technology and the University Institute of Engineering & Technology.

**Department of Special Assistance (DSA):** Departments of Biochemistry, Statistics, Biophysics, Microbiology.

**Funds for Improvement of Science & Technology (FIST):** Departments of Biophysics, Biotechnology, Chemistry, Physics, University Institute of Pharmaceutical Sciences and Zoology

**University with Potential for Excellence in Biomedical Sciences:** The University has been recognized by the UGC as the "University with Potential for Excellence in Biomedical Sciences" with facilities for Stem Cell Research and Drug Development. During the 11<sup>th</sup> Five Year Plan (2007-2012), it was awarded the following two Centres of Excellence by the UGC under the Scheme of Centre with Potential for Excellence in a Particular Area (CPEPA):

- **Centre of Excellence** in "Application of Nano Materials, Nano Particles and Nano Composites", with a grant of Rs. 3.55 crore.
- **Centre of Excellence** in "Cultural Fixation on Honor: A Gender Audit of Punjab and Haryana", with a grant of Rs. 1.85 crore.

### INTERNATIONAL COLLABORATIONS

The University has signed MoUs with University of Nottingham (UK), University of Birmingham (UK), Nottingham Trent University (UK) and University of Western Sydney (Australia). PU has collaborations also with National Science Technology and Development Agency, Thailand; University of Missouri, USA and Universidade de Aveiro, Portugal; International Crops Research Institute for Semi-Arid Tropics (ICRISAT), Hyderabad; International Centre for Agricultural Research in Dry Areas (ICARDA), Morocco for a joint collaborative project funded by the Consultative group on International Agricultural Research (CGIAR) consortium, funded by organisations such as UNDP and FAO, USA, UK, and Germany; International Centre for Agricultural Research in Dry Areas (ICARDA), Morocco; World Vegetable Research Centre, Taiwan through its South Asia Centre at Hyderabad and Baylor Medical centre, Dallas, U.S.A.

The university has MoUs also with The Foundation Le Corbusier Paris France, Antioch University Seattle (USA), ValayaAlongkornRajabhat University Thailand, University of Hull UK, Julius Maximilian University of Wurzburg, International Skill Development Corporation, Deakin University Australia, University of Western Sydney, Nottingham Trent University, Birmingham University, National Institute of IST, Japan, Fayetteville State University, USA, University of Nottingham.

### **NATIONAL COLLABORATIONS**

The University has various collaborations with a number of prestigious national institutes like Indian Agricultural Research Institute, Delhi; GB Pant University of Agriculture and Technology, Pantnagar; Himalayan Forest Research Institute, Shimla; IIT, Roorkee; PGIMER, Chandigarh; Nuclear Science, Delhi; IMTECH; CSIO, Chandigarh; Institute of Nuclear Medicine and Allied Sciences (INMAS), New Delhi; JamiaHamdard University, Delhi; Atomic Energy Regulatory Board of India, Mumbai; Central University, Hyderabad; Agriculture University, Palampur; Inter University Consortium (Kolkata & Bhubaneswar).

The University also has MoUs for collaboration with, *inter alia*, ICSI New Delhi, INFLIBNET, CSKHPKV Palampur, Future Hitech Batteries Ltd. Mohali Punjab, NIPER Mohali Punjab, Terminal Ballistics Research Laboratory Chandigarh, Association of Chartered Certified Accountants, Cosmic Ray Laboratory (CRL), TIFR, Ooty, SSS-NIBE New Delhi, Dr.Harisingh Gour Vishwavidyalaya, Sagar (MP), Defence Institute of Physiology and Allied Sciences, Sarbat Da Bhala Charitable Trust, INST, Mohali, CSIR, New Delhi, IDSA.

### **CHANDIGARH REGION INNOVATION & KNOWLEDGE CLUSTER (CRIKC)**

The Chandigarh Region Innovation & Knowledge Cluster which is a cluster of Chandigarh region institutions to promote and sustain excellence in research currently has participation from 25 prominent and well known teaching and research institutions, many of them of international fame. The CRIKC, which exemplifies the idea of having knowledge cluster/hub. The 'Meta-University', is currently headquartered at the PU campus.

### **RESEARCH INITIATIVES**

The University is participating in various prestigious International High Energy Research Programmes at Fermilab (USA), KEK (Japan) and CERN (Switzerland). At present, the University is involved in a big way in CMS and ALICE Experiments at CERN (European Organization for Nuclear Research) Switzerland and Neutrino Programme at Fermilab, USA. The CMS (Compact Muon Solenoid) project at the Large Hadron Collider is for the discovery of Higgs Boson and other new particles. Under such International Research programs, the University had earlier been involved in the Top Quark Discovery (1995) and CP-violation discovery (2001).

### **PROMINENT RESEARCH FUNDING**

The Department of Science and Technology, Government of India, selected the Panjab University as one among the top fourteen universities of India for further funding under the Promotion of University Research and Scientific Excellence (DST-PURSE) programme. Under this prestigious scheme, the university will receive Rs. 34.8 crore for the development of research infrastructure, which could be utilized in the period from 2014 to 2018. To participate in the CMS project, the Department of Science and Technology and the Department of Atomic Energy have provided Rs. 19 crore for the Twelfth Five-Year Plan.

In the year 2015-16, there were 84 Sponsored Research Projects from 15 funding agencies and received grant of Rs. 12,84,93,529/- and university spent Rs.11,57,62,000 for the new equipment for laboratories. An amount of Rs. 6,21,69,000 were spent on the library.

### **MAJOR FACILITIES**

**A.C. JOSHI LIBRARY:** The AC Joshi Library is housed in a centrally-located and fully air-conditioned 5 storey-building with a seating capacity of 500 readers. It has over 7 lakh publications and a prized collection of 1490 manuscripts. It is fully computerized and provides access to more than 7500 online full text journals through UGC- INFONET. It is one of the six National Document Delivery Centres of INFLIBNET for data information distribution. Radio Frequency Identification Technology in the Library benefits the readers by permitting self-issue and returns of books 24x7. Recently many new services have been introduced such as Online Membership, SMS service, Digital signage system, etc. The outer reading hall of the library is open twenty four hours. For visually impaired students, the library provides JAWS software to access information displayed on the screen via text-to-speech and Zoom-Ex which turns computer into an accessible scanner, reader and magnifier.

The University has its own Website to host date-sheets, results, examination forms and online entrance and admission forms for the convenience of students/public.

**BHAI GHANAIIYA JI (BGJ) INSTITUTE OF HEALTH:** Bhai Ghanaiya Ji (BGJ) Institute of Health caters to the medical needs of about 40,000 employees and their dependents, students of all the departments, daily wagers, contractual employees, mess and canteen workers. A round-the-clock emergency service, along with 24x7 ambulance, is available. The Institute has a fully equipped modern clinical laboratory, latest computerized ECG machine, a fully computerized digital 500mA mammographic compatible CR unit and an X-Ray machine. BGJ Institute of Health is manned by a general physician and specialists from different faculties.

**DR. A.P.J. ABDUL KALAM COMPUTER CENTRE:** The Computer culture at Panjab University dates back to 1966. The Computer Centre of the University provides Fibre Optic high speed network connectivity through Gigabit technology to all the Departments, Centres, Hostels and Administrative Block. The Computer Centre is connected through National Knowledge Network (NKN) and the National Mission of Education through Information and Communication Technology (NMEICT) networks. All the hostels and Academic areas of Sector 14 and Sector 25 are covered by Wi-Fi and students and staff can access it seamlessly. The Computer Centre is hosting all the servers (like DNS, Mail, Web Server) in its data centre and providing facilities like online admissions and entrance tests.

**SOPHISTICATED INSTRUMENTATION CENTRE:** One of the most modern instrumentation centres in the country, this setup houses Regional Sophisticated Centre, University Science Instrumentation Centre, and Central Instrumentation Laboratory. The instruments in the Centre are for analytical, spectroscopic and structural studies. The facilities of the Centre are available to the researchers in academic institutions and the industry. These instruments facilitate quality control. Besides meeting the needs of individual scholars, the Centre provides consultancy services to nearly 300 organizations to promote interaction between Industry and Research Institutions.

**CENTRE FOR IAS AND OTHER COMPETITIVE EXAMINATIONS:** The Centre for IAS and Other Competitive Examinations admits students for the four month batch of IAS (Preliminary) examination through an entrance test. The Coaching Classes are held twice a year. In the course of coaching, the students get exposure to specialized expertise available on the Campus. The UGC-NET examination is held in June/December every year and the Centre provides one month coaching for the examination. The Centre also provides coaching for PCS Judicial examination. The Centre has Honorary Director, Coordinator, Resource persons and office staff to look after the Coaching Centre.

**HUMAN RESOURCE DEVELOPMENT CENTRE (formerly Academic Staff College):** Through its inter-disciplinary programmes, the U.G.C. Human Resource Development Centre offers Orientation and Refresher Courses for the College and University teachers. Some of these courses focus on vital issues like environment and gender relations. The office of the Dean of Alumni Relations maintains a link with the old graduates of Panjab University and provides a forum to them for exchange of ideas on academic, cultural and social issues of the day. The P.U. Extension Library at Ludhiana meets the needs of the students, teachers and the general public in and around the city.

**COUNSELLING CENTRE:** A counselling centre has been created in the Department of Psychology to address the psychological needs of students.

**COLLEGE DEVELOPMENT COUNCIL:** The developmental aspects of colleges affiliated to the university, such as the UGC grants, vocationalization, teachers' training and affiliation for new courses are taken care of by the Dean, College Development Council.

**EMPLOYMENT INFORMATION AND GUIDANCE BUREAU:** The students get counseling for further specialized training, admission tests and fellowships abroad, job opportunities and placement prospects. In some cases, the corporate sector and placement agencies send their selectors to the university campus for directly recruiting the meritorious students during the final year of professional courses. Counseling for personal problems, facilitating physical and emotional adjustment on the campus, is also available. Sometimes special workshops are organized to help students to learn more about themselves, their aptitude and abilities and to enable them to overcome their limitations. Counseling as well as relevant information is provided by the Employment Information and Guidance Bureau and the University Information and Advisory Bureau.

**PUBLICATION BUREAU:** The University publishes text books, general books and works based on research. Established in 1948, the Publication Bureau has brought out over a hundred scholarly and general works and over 200 text books. Several of these have run into multiple editions and reprints. The Bureau holds periodic exhibitions of its publications. The University also has a modern printing press of its own

**PUBLIC RELATIONS:** An important link with the public, government agencies, and the media, this Department provides the channel of communication also within the Campus-between the University authorities, the Teaching Departments and the students. The P.U. News, a quarterly of events on the Campus and the affiliated colleges, is brought out by this Department. The Director, Public Relations also assists in the media-coverage of seminars and special lectures and gives formal and informal counseling to students and general public.

**SPORTS FACILITIES:** The University has playgrounds for all major sports. There is an air-conditioned gymnasium hall, an international level Swimming Pool, Diving Pool, 400 m grassy Athletic Track (8 lanes), two cemented Basketball courts with flood lights, four Volleyball courts, one Hockey ground, two football grounds, two Kho-Kho courts, two Kabaddi courts, three Softball grounds, two Cricket grounds, one Netball ground, one korfbal ground, two synthetic lawn tennis

courts, 8 Lawn Tennis Courts, one Cinder Lawn Tennis Court. An international standard 10 meter shooting range is also functional on PU Campus. The University has been awarded the Maulana AbulKalam Azad (MAKA) Trophy thirteen times for excellence in games and sports at the All India Inter-University level.

**STUDENTS' ACCOMMODATION:** There are 17 hostels (8 for boys and 9 for girls) to accommodate nearly 6700 students. There is also one Working Women hostel with a capacity to accommodate 70 residents. In addition to this, there is one International Hostel for foreign students and two sports hostels.

**PANJAB UNIVERSITY COMMITTEE AGAINST SEXUAL HARASSMENT (PUCASH):** It is constituted for a period of two years consisting of at least six members for redressal of complaints of sexual harassment of women employees/female students. The Cell is headed by a woman professor as its Chairperson and has 50% of its members as women employees. Its members include a woman counsellor and a person with legal background. Details are available at <http://puchd.ac.in/pucash.php>.

**SC/ST CELL:** It has been constituted to address the problems of SC/ST students and to facilitate the award of scholarships/stipends/freeship to the eligible students and help the SC/ST students under various schemes.

**SCHOLARSHIPS AND FINANCIAL ASSISTANCE:** Financial support is available to deserving and needy students on the Campus. A large number of scholarships of varying amounts, under the various schemes of Government of India and the state governments, and those instituted by private agencies and trusts are awarded every year. In addition, fee concessions, financial assistance, loans and other forms of support are also provided to the deserving and needy students by the University.

**INTERNATIONAL STUDENTS:** More than 500 international students have been pursuing undergraduate and postgraduate courses at Panjab University and its local affiliated colleges. Seats are available for Non-Resident Indian (NRI) candidates. Foreign Nationals sponsored by Government of India can seek admission if they are otherwise eligible.

**PU RADIO JYOTIRGAMAYA:** The University has its own community radio station, Radio Jyotirgamaya 91.2, which acts as a unifying agent amongst the university faculty, students and also the community. The radio programmes can be listened to over a range of 10 kilometers.

**DEWAN ANAND KUMAR HALL:** The Administrative office housed in a five-storey building has 3 well marked branches looking after General Administration, Examinations, Finance and controlling the affairs of Campuses and affiliated colleges.

#### RECENT DEVELOPMENTS AND ACHIEVEMENTS FOR THE YEAR 2016

- PU has been ranked number one University of India and Ranked 389 in the "Best Global Universities Rankings" by the 'US News and Global Report'. PU is ranked at 55<sup>th</sup> place in Asian universities and educational institutions.
- PU has been ranked in the bracket 601-800 internationally in the Times Higher Education World University Rankings, 2016-2017. PU is ranked 135<sup>th</sup> in BRICS & Emerging Economies 2017.
- PU got 8<sup>th</sup> rank in the MHRD initiated 'National Institutional Ranking Framework (NIRF)' amongst all the Universities of the country. PU was 12<sup>th</sup> amongst all the Universities/educational institutions of the country. The rankings were released for the Higher Education Institutions by Union Minister of Human Resource Development (MHRD).
- University Institute of Pharmaceutical Sciences (UIPS) got second place amongst Pharmacy Institutions in the 'National Institutional Ranking Framework (NIRF) under Pharmacy (Category A-Research and Teaching).
- PU was ranked in the 111-120 bracket by the Times Higher Education in Asia University Ranking 2016.
- The Associated Chambers of Commerce and Industry of India (ASSOCHAM) adjudged the PU, Chandigarh, as the 'Best University Campus' in India.
- PU bagged the CII-Clarivate Analytics India-UK Award For Excellence In Research Collaboration at the India-UK Tech Summit.
- PU received the approval for setting up of an India-UK Advanced Training Schools (IUATS) under the Newton Bhabha Fund programme
- Dr. S.S. Bhatnagar University Institute of Engineering & Technology was honoured with the Outstanding Engineering Institute (North) 2016 award by the ABP News at its National Education Awards on June 23, 2016 at Mumbai.
- PU student Mr. Neeraj Chopra (DAV College, Chandigarh) created World Record and won a Gold Medal in the men's Javelin Throw by throwing the javelin at a distance of 86.48m at the U-20 World Championship held at Bydgoszcz in Poland. He is reported to be the first Indian athlete to set a World record at any level
- PU students won 4 Gold Medals, 1 Silver medal and 1 bronze medal in the World University Shooting Championship held at Poland from 14-18 September, 2016. Ms Vinita Bhardwaj won two Gold Medals in the Air Rifle Women Individual and Air Rifle Women Team

- International Students Hostel and PU Shooting Range got inaugurated this year.
- The University won the All India Inter University team Titles in Wrestling (Greco Roman) (Men), Netball (Men), Baseball (Men), Swimming (Men), Fencing (Women), Netball (Women), Handball (Women), Baseball (Women), Judo (Women) and Squash (Women). The University teams won runners-up team positions in Road Cycling (Women), Shooting (Women) and Swimming (Women).

#### **PANJAB UNIVERSITY COLLOQUIA SERIES**

Under the initiative of P.U. Colloquia, nine distinguished academicians, scientist and social scientists of national and international eminence delivered public lectures on various issues of public importance in the year 2016.

- Prof. Rakesh Tuli, J.C. Bose Fellow & Senior Research Advisor, UIET, PU Topic: "Genomics for Designing Future Life Forms".
- Prof. Dipankar Gupta, Distinguished Professor at Shiv Nadar University & Director, CPACT Topic: "Public Space in Town Planning: Making Citizen Friendly Cities".
- Dr. Isher Judge Ahluwalia, Economist & Chairperson ICRIER, New Delhi. Topic: "Role of Cities in India Development".
- Prof. Bidyendu Mohan Deb, INSA Senior Scientist. Topic: "The Jewel of the Serpent: Aspects of Mathematics in Ancient and Medieval India".
- Sh. Surendra Nihal Singh, Former Editor of The Statesman and The Indian Express. Topic: "Indian Politics: The Tipping Point".
- Lt. Gen. K. J. Singh, PVSM, AVSM and BAR (Retd.). Topic: "Challenges to National Security and Suggested Response Strategy".
- Prof. Pam Rajput, Professor Emeritus and former Chairperson, Government of India High Level Committee on the Status of Women in India. Topic: "Women and Sustainable Development Goals - the Indian Context".
- Sh. Shekhar Sen, Singer, Music Composer, Lyricist, Actor and Padma Shri Awardee. Topic: "Meri Kalayatra."
- Sh. Shiv Kunal Verma, renowned author & producer of highly acclaimed films on the Services. Topic: "Blanks on a Map."

#### **CAMPUS OFFICES AND ACTIVITIES DEAN OF UNIVERSITY INSTRUCTION**

##### **Professor Dinesh K. Gupta, Dean of University Instruction**

The office of Dean of University Instruction (DUI) works as a nodal centre to scrutinize, supervise and synergize academic and administrative activities of teaching departments of Panjab University and its Regional Centres. The office co-ordinates and supervises various activities including admission of students to various University Departments, decides applications for exemption from payment of tuition fee, submits to the Academic Council Time-Tables of all University classes, arranges the accommodation of all University classes, oversees that discipline and routine of work in all University classes is maintained, calls for and examines proposals from affiliated colleges for permission to start Honours classes, co-ordinates wherever necessary, the work of the University teaching departments, sanctions casual leave to the members of the teaching staff, operates the accounts of Amalgamated Fund allocated for academic activities of students, makes arrangements for extension lectures and recommends to the Vice Chancellor delegates to the various conferences.

#### **RESEARCH PROMOTION CELL**

##### **Professor O.P. Katare, Director**

##### **Professor Ramanjit Kaur Johal, Associate Director**

The Research Promotion Cell (RPC) is a new, unprecedented in the country scenario, initiative of the Panjab University. This is a high-placed University entity serves as a Nuclear Operating System with a mandate to promote and coordinate all functions and activities relating to Research and Development including innovations and entrepreneurship programs in all domains and disciplines across departments, institutes and centres of the University. With its Directorate (located in the Vice-Chancellor's Office) and a six-member very capable team, it owns the responsibility of facilitating and monitoring research proposals, projects and PU's research journals while coordinating and partnering with various national & international bodies including business and industry. Information dissemination activities as well as promotion of quality research through facilitation & monitoring of conferences, seminars, symposia, events, workshops and specific group meetings are part of the RPC's mandate. It also takes new initiatives and engages closely in building relationships for collaborations and joint ventures in its role as clearing house for agreements and MoUs at local, national and international levels. Overall, RPC serves as key contact point for University Research.

## INTERNAL QUALITY ASSURANCE CELL

**Professor M. Rajivlochan, Director**

**Professor Archana Bhatnagar, Associate Director**

Internal Quality Assurance Cell (IQAC) is handling the work of various survey related activities of data collection, compilation, transmission to various agencies like UGC, MHRD, NAAC etc. One of the major activities is the All India Survey of Higher Education (AISHE) Project of MHRD, through which the data of PU and its affiliated colleges is uploaded every year on AISHE Portal. This cell is also proactive in the implementation of PU Computerization. Project, a web based online software consisting of about 20 modules, popularly known as Campus Portal. Campus Portal is one of the key activities of this cell. This portal was envisaged as a complete solution for the complete computerization of Administrative Block, Teaching and Non-teaching departments. The portal also covers the PU Regional Centres in Punjab. It can also be extended to constituent Colleges through Virtual Private Network (VPN).

## VIGILANCE CELL

**Professor (Mrs.) Meenakshi Malhotra, Chief Vigilance Officer (Additional Charge)**

The Office of Chief Vigilance Officer (CVO) is located in the Administrative Block of the Panjab University. CVO is to advise the Vice Chancellor on vigilance complaints concerning the University staff & teachers and to ensure probity and integrity in University administration with the following objectives:-

1. To activate the vigilance machinery in the University for investigating complaints.
2. To sensitize the University Community against corruption and corrupt practices.
3. To strengthen preventive vigilance by stream lining procedures, and
4. To prevent the possibilities of corruption and encourage a culture of honesty and integrity.

## DEAN OF STUDENT WELFARE

**Professor Emanuel Nahar, Dean of Student Welfare (Men)**

**Professor (Mrs.) Neena Capalash, Dean of Student Welfare (Women)**

**Professor Rattan Singh, Associate Dean of Student Welfare**

The Dean of Student Welfare (Men) and the Dean of Student Welfare (Women) look after the functioning of the University hostels, conduct of election to the student bodies, planning and organizing of cultural, extra-curricular activities, disburse cultural scholarships and financial assistance to campus students.

The Office of the Dean of Student Welfare (DSW) is located in the Student Centre. It has the following constituents to promote the general welfare of the Campus students:

**Panjab University Campus Students' Council:** Panjab University Campus Students' Council is elected to promote healthy corporate life, ensure maintenance of proper academic atmosphere and orderliness, help in allocation of Amalgamated Fund for different authorized purposes and activities connected with student welfare and to assist in organizing various cultural and sports functions on the Campus.

**Campus Reporter:** This is an annual multilingual publication for circulation amongst the students and the faculty on the Campus. It aims at providing a forum for expression to the students and is published with their active cooperation. The students are promoted to develop their literary skills.

**Campus Representation in Cultural & Literary Competitions:** The Campus teams are selected and trained to participate in inter-College and inter-University, Cultural and Literary competitions. The performance of these teams has been outstanding and they have been annexing trophies and overall best awards for the last many years. The University organizes Inter-college, Campus/zonal competitions, hiking and trekking expeditions, rock climbing, mountaineering and youth leadership training camps and other constructive activities also.

**Educational Tours:** Subsidized educational tours are undertaken by students under different educational programmes.

**Students' Scholarships:** The Office of the DSW provides the following subsidies/financial assistance/scholarships to the Campus students as per rules/terms & conditions laid-down by Panjab University:-

1. Need Based Assistance, Need-cum-Merit and Scholarships for Handicap Students: These scholarships are paid for nine months a year to the students recommended by the Chairpersons as per conditions laid-down for the award out of "Students Scholarship Fund".
2. Sports Scholarships: This scholarship is awarded on the basis of the grading done by the Sports Department based on

the performance of the Campus students in various sports activities. This scholarship is paid for nine months a year out of "Students Scholarship Fund".

3. Extra-mural Activities Scholarship: This scholarship is paid out of the "Amalgamated Fund". The performance of the Campus students in various Extra-mural activities like debates, seminars, one-act play etc. is the deciding factor for award of the scholarship. This scholarship is a fixed amount to be decided by the Vice-Chancellor on the recommendations of the Committee.
4. Financial Assistance: Financial assistance is paid out of "Poor Students Welfare Fund" to the deserving P.U. Hostel residents.
5. Food Subsidy: Food subsidy is also paid to the needy hostel residents. The recipients of food subsidy will do some duty/work in the hostel as may be assigned by the Warden.

**Student Centre:** Student Centre is housed in an attractive cylindrical building almost at the Centre of the University Campus. It has an indoor games section on the first floor, Placement Cell for the benefit of the Campus Students on the 2nd floor and houses a modern South Indian Cafeteria. The shops adjoining Student Centre are mainly run for the convenience of Campus students. An ATM facility has also been provided at the Student Centre.

**Hostels:** There are 17 multi-storey hostels on the Campus. Eight of these are for boys and nine for girls. A Working Women Hostel is equipped with all modern facilities. An International Hostel accommodates international faculty/students. Hostel seats are limited and are provided purely on merit basis to the Campus students. Number of seats available is displayed on the University web site well before the start of admission. A Sports Hostel is also there for visiting sports teams. One more hostel for girls particularly for Research Scholars is also being constructed. An International Hostel has been completed to accommodate international faculty/students.

The residents are required to observe the rules printed in the Handbook of Rules for Residents of the Panjab University Hostels.

## DEAN INTERNATIONAL STUDENTS

### Professor Deepti Gupta, Dean International Students

The office of the Dean, International Students (DIS) looks after the welfare of the international students and maintains liaison with university authorities and outside agencies. It maintains close liaison with the Indian Council for Cultural Relations (ICCR) with regard to their Programmes for the International Students. We also maintain liaison with the Dean of University Instruction, Dean of Student Welfare, Dean of Alumni Relations, as well as Principals of Affiliated Colleges in Chandigarh with regard to the welfare of International students and maintain links with International Alumni.

The office of the Dean of International Students facilitates the international students body in organizing their cultural functions/sports etc. The office organises various activities such as educational trips, orientation-cum-cultural exposure programme, English language and soft skills workshop, sports, cultural and literary extra-curricular activities and the end of academic session annual-cum-farewell function.

The students wishing to join any of the University Teaching Departments/Colleges affiliated to the Panjab University, for the first time are required to obtain an eligibility/equivalence certificate. This certificate is issued by the Deputy Registrar (General) Panjab University, Chandigarh. The request form for issuance of eligibility certificate is available at <http://forms.puchd.ac.in>. For any enquiry, contact the office of the Deputy Registrar (General) at telephone nos. +91-172-2540385, +91-172-2534857, +91-172-2534862 and email : [drgen@pu.ac.in](mailto:drgen@pu.ac.in).

International students can approach this office for advice and assistance in finding a suitable hostel or residential accommodation in Chandigarh. The students requiring expenditure certificate or assistance with their remittances are advised to contact the office of DIS.

International students admitted to various Panjab University Teaching Departments/Local Affiliated Colleges are required to pay 'Foreign Students Welfare Fee' as prescribed by Panjab University.

More than 500 international students have been pursuing undergraduate and postgraduate courses at Panjab University and its local affiliated colleges. Seats are available for Non-Resident Indian (NRI) candidates. Foreign Nationals sponsored by Government of India can seek admission if they are otherwise eligible.

Candidates provisionally selected for Post Graduate/Undergraduate admission shall be issued provisional admission letters to facilitate their student visa process. The final admission would be based only on production of passport and student Visa.

All rules and regulations of Panjab University will apply to foreign students as well.



## DEPARTMENT OF YOUTH WELFARE

### Dr. Nirmal Jaura, Director Youth Welfare

The Department of Youth Welfare, being an important part of the University, working for the overall development of the students, was set up in 1958 under the Directorship of Dr. K.C. Anand as Founder Director. With an objective of nurturing the young minds and for their balanced growth and development, the Department of Youth Welfare organizes a number of activities every year. As the department encourages the young students to come forward and prove themselves by participating in various creative activities in the same way the active participation of the students in these activities encourage the department to provide them more and more opportunities for their overall development. Keeping in view the above mentioned scenario the department organizes chain of activities during the period of report as Youth leadership training, Hiking Trekking and Rock climbing camp, Panjab University Zonal Youth and Heritage Festivals, Panjab University Inter-Zonal Youth and Heritage Festival, North Zone Inter University Youth Festival, All India Open National Youth Festival and All India Inter University National Youth Festival. Youth Welfare Department has recently started Students Holiday Home (Youth Hostel) Chandigarh to serve the students and teachers simultaneously Student Holiday Home at Dalhousie is also being managed by the Department.

A Literary/Cultural annual magazine "*Jawan Tarang*" has been launched since 2013 with focus on youth activities. First three editions of the magazine were appreciated at every platform. 4<sup>th</sup> edition of *Jawan Tarang* is under print. This magazine has been published to provide ample opportunity to young students to express their emotions, opinion, dreams and aspirations. It carries contributions in the form of creative writings, from the students of affiliated and constituent colleges of the Panjab University along with the record of the various youth activities of the department. A beautiful park with open air theatre in front of the Department is in process of development named as "Shaheed e Azam Bhagat Singh Youth Park."

**Activities:** Youth Festivals: Zonal, University, Inter-University, National/International Level

Heritage Festivals: Zonal, Inter-Zonal, Inter-University, Youth Leadership Training Camps, Hiking-Trekking, Cycle Tours, Mountaineering, Adventure Courses, Rock Climbing & Allied Sports.

Youth Service Clubs, Workshops/Seminars, Publications: Magazines, Brochures etc., Students Holiday Homes: Youth Hostels.

During the session 2016-17 more than twenty thousand students of the university have participated in Panjab University Zonal and Inter Zonal Youth and Heritage Festivals. Panjab University students brought the laurels during the All India National Youth Festival held at Shivaji University, Kolhapur (Maharashtra), North Zone Inter University Youth Festival at Chhatrapati Shahu Ji Maharaj University, Kanpur (U.P). Youth for Innovation, Entrepreneurship & National Development was the theme of the Panjab University Youth Festivals conducted by the department in this session.

## DEPARTMENT OF NSS

### Dr.(Mrs)Navdeep Sharma, Programme Coordinator

### Dr. Jatinder Grover, Campus Coordinator

The Department of NSS was established in 1969. It is a nodal agency to supervise and regulate the regular activities at Panjab University campus and its affiliated colleges. Presently more than 130 colleges affiliated to Panjab University have regular NSS units. In Panjab University there are 9 NSS units (900 volunteers). Panjab University is supervising more than 18000 volunteers in its affiliated colleges. The aim of Panjab University NSS department is to:-

1. Make education more relevant to the present situation to meet the emerging needs of the community and supplement the education of the university/college students by enabling them to understand the issues and problems confronting the rural India and learn how to address them.
2. Provide opportunities to the students to play their role in planning and executing development projects that would not only help in creating durable community assets in rural areas and urban slums but also results in the improvement of quality of life of the economically and socially weaker sections of the community.
3. Encourage students and non-students to work together along with the adults in rural areas.
4. Emphasise dignity of Labour and self-help and the need for combining physical work with intellectual pursuits.
5. Encourage youth to participate enthusiastically in the process of national development and promote national integration, through corporate living and cooperative action.

**Activities:** Digital India Workshop on 20<sup>th</sup> September 2016, North East Youth Leadership Festival on 12<sup>th</sup> and 13<sup>th</sup> November 2016, Tree Plantation drives, Van Mahotsav, World Hepatitis Day, Blood Donation Camps, Teej Festivals, National Integration Day and all the other national and International weeks as directed by Ministry of youth Affairs and sports, NSS orientation Programme.

## **DIRECTORATE OF SPORTS**

**Dr. Parminder Singh Ahluwalia, Director, Physical Education & Sports**

**Dr. Rakesh Malik, Deputy Director, Physical Education & Sports**

**Dr. Dolly, Deputy Director, Campus Sports**

The Directorate of Sports was set up in the year 1948 and is located in the Jawahar Lal Nehru Complex Building (Gymnasium Hall). It guides, frames policy and co-ordinates the sports activities. Directorate of Sports functions under the overall control and supervision of University Director of Physical Education.

The Gymnasium hall caters to in-door games with international standard facilities and equipment for Badminton, Table-Tennis, Kabaddi (NS), Weight Lifting, Judo, Wrestling and Taekwondo. A separate fitness centre for men and women and a well equipped physiotherapy laboratory have also been established in the gymnasium hall. A swimming pool of international dimension and all Weather Swimming Pool are available for the swimming competitions. It also has 10 meters Indoor Shooting Range of International standard for competition purposes.

Directorate of Sports has its own two sports hostels for Men & Women to accommodate the sports persons who come to participate in the inter-college and inter-university competitions. These hostels have a three-storey building to accommodate about 200 men and 300 women players with eight official rooms.

The Directorate of Sports organized about 111 Inter College and 8 Inter University competitions during 2016. The Directorate of sports fielded 78 teams for both men and women in Inter University competitions and arranged coaching camps in these games under the supervision of expert coaches.

Outstanding sports persons are given financial concessions and free education (no fee will be charged except examination fees). Free hostel accommodation shall be allotted and special seats will be reserved in hostels for above mentioned category of sportspersons (No hostel fee or any other charges and exemption of mess and canteen charges maximum upto Rs. 3500/- only) and Free swimming Pool, Gym Facility, Tennis, Shooting and Physiotherapy. Merit scholarships are also awarded to such persons. Players of all the teams representing P.U. Campus in the inter-college competitions are given uniforms (free of cost) & refreshments during coaching camp to encourage more participation in the sports competitions.

5% seats are reserved for sportspersons for admission to the teaching departments. Students admitted under this category are required to attend the grounds regularly, failing which their admission is liable to be cancelled from the department. It has been done to encourage more participation among the campus students.

The outstanding sportspersons who bring honour to the University are given incentives and cash awards. Directorate of Sports always helps the Chandigarh Administration, U.T. Sports department and other sports agencies in the conduct of national and international level competitions in various games.

### **Special Incentives for the sports persons who are studying in P.U. Campus, Constituent Colleges and Regional Centres**

**Aim:** To motivate the outstanding sports persons to seek admission and provide financial assistance to them.

#### **Conditions:**

- a) Special Incentives scheme for the outstanding sports persons of P.U. Campus, Constituent Colleges of P. U. and Regional Centres of P.U., Chandigarh during their study in their respective institution who brought laurels to Panjab University by their outstanding sports performance in those games which are recognized by IOA (Indian Olympic Association) and that games are considered for the calculations of marks awarded to each University for the purpose of awarding MAKATROPHY.
- b) Special Incentives Scheme subject to the submission of the undertaking by the sports persons that he/she will represent the Panjab University/State team in the Inter-University Competition/ National Championship/games for which special incentives is claimed.
- c) The Special Incentives scheme will be applicable to sports persons of P.U. Campus, Constituent Colleges of P.U. and Regional Centres of P.U., Chandigarh whose performance falls under the current academic session subject to

- submission of affidavit that he/she will represent the Panjab University team State team in the Inter-University Competition/National Championship/ National games in the games for which special incentives scheme was claimed.
- d) The Special Incentives scheme will also be applicable to those sport persons who intend to take admission in P.U. Campus. Constituent Colleges of P.U. and Regional Centres or Panjab University, Chandigarh. In these cases, for special incentives scheme according their last session's performance will be considered to their eligibility in the criteria.
  - e) The special incentive will be awarded only after the submission of concerned Certificate/s with undertaking of their performance and accreditation or the concerned certificate and issuing authority by Internal Olympic Committee/ Indian Olympic Association.
  - f) The period of achievements will be counted from 1st July to 30th June every year.
  - g) The incentives will be given to only those applicants who will submit the attested copies of their achievement certificate/s in the office of the Campus Sports for P.U. Campus student and Directorate of Sports, Panjab University, Chandigarh for other students before 30th June every year.

**The following points are applicable for the sports person of PU Campus, constituent Colleges of P.U., Regional Centres of P.U., Chandigarh and all affiliated college.**

- i) The sports person's leave for sports competition/coaching camps (including Journey days) recommended by the Dean of Student Welfare for P.U. Campus, students, and Directorate of Sports for other students in the games and tournaments which are recognized by Indian Olympic Association and are in the list of Association of Indian Universities for the calculation of marks for awarding MAKA trophy to the University. During this leave period the concerned sports person shall be treated as present for the assessment and for all other academic purposes.
- ii) The Provision of special examination (sessional/internal/external including practical and theory examination) as recommended by the Director Phy.Edu. & Sports should be made for the sports persons who miss the exams while participating in the sports events.
- iii) Sports persons who represent India in Senior/Junior/Youth/Cadet Categories will be given incentives as per their category.

**Scheme No.(1) International Level Achievement**

A person getting any of the first four positions or represented India in the Olympic Games World Championships/World Cups/ Davis Cup/Thomas Cup/Uber Cup/Para Olympic. Games/Winter Olympic Games/Champions Trophy/Commonwealth Games/ Commonwealth Championships/World University Games/World University Championships/Asian Games/Asian Cups/Asian Championships/ Asian Winter Games/Asian Olympics/Wimbledon 'Championship/US, French and Australia Open (Tennis) Championships/All England Badminton tournament/ Youth Olympic Games/One day International Cricket Matches/Cricket Test Matches/Commonwealth Youth Games International Athletic Permit Meet/Asian Youth Games/Asian Martial Art Games Asian Winter Games/SAF Games Any other Game/Sport recognized by IOA as mentioned in **Annexure-I Category-A-1, A -2 and A-3**) are eligible for the Incentives mentioned in incentive Scheme (I) given below: -

**Incentive Scheme (I)**

1. Free education (no fee will be charged except examination fees).
2. Free hostel accommodation shall be allotted and special seats will be reserved in hostels for above mentioned category of sportspersons (No hostel fee or any other charges and exemption of mess and canteen charges maximum up to Rs. 3500/-only).
3. Free Swimming Pool, Gym facility, Tennis, Shooting and Physiotherapy

**Scheme No. (II) National Level Achievement & Inter-University Tournaments/National University Games**

A person getting any of the first four positions in the National Games/National Championships/ Federation Cups in Senior Category only organized by National Sports Federations recognized by Govt. of India and Indian Olympic Association/ National Sports Festival for Women/Inter-University Tournaments/ National University Games as mentioned in Category-B & C respectively in Annexure-1 are eligible for the incentives mentioned in the incentives scheme (II) given below:-

**Incentives Schemes (II)**

1. Free education (No fee will be charged except full examination fees)
2. Free hostel accommodation shall be allotted and special seats will be reserved in hostels for above mentioned category of sportspersons (No hostel fee or any) other charges except mess and canteen charges).
3. Free Swimming Pool, Gym facility and Physiotherapy.

### **DR. A.P.J. ABDUL KALAM COMPUTER CENTRE**

#### **Professor Ravinder Kumar Singla, Director (Additional Charge)**

Computer Centre (CC) was renamed in the memory of Bharat Ratna Dr. A.P.J Abdul Kalam as Dr. A.P.J Abdul Kalam Computer Centre on July 27, 2016. Computer Centre provides computing and network services to the whole campus community (Sector 14 and Sector 25) of Panjab University.

Computer Centre has modern facilities such as Virtual Class room, Wi-Fi Network, Storage Network, Web server, E-mail server etc. Ministry of Human Resource and Development, Government of India has selected the University as a part of National Knowledge Network (NKN) to be connected with other institutions in the project and other internet services through high speed network. CC has established campus wide network with 10G/1G connectivity through Optical Fibre Cable provided to almost all the departments, Hostels, Centres, and other locations in the Campus using two number of Core Chassis switches of 3.84 Tbps and 768 Gbps switching backbone. Wireless connectivity has been provided using more than 1000 Access Points in the departments, Hostels and other Academic Areas. Internet connectivity is supported by three WAN links of 1Gbps (NKN), 1 Gbps (BSNL under NMEICT Project) and 180 Mbps (Bharti Airtel). Access network and server network is secured using a UTM.

CC provides Web-based Email that enables all the users to access their mailbox anywhere via the Internet and provides network/web based facility for computing with software like SPSS, MATLAB, Mathematica, Anti-plagiarism and Antivirus software etc. for the campus users. CC also encourages use of free and open source software like GNU/Linux distributions.

CC provides training to the university staff on new services launched and also conducts short-term IT awareness courses for the Faculty, Non-teaching Staff and Research Scholars free of cost from time to time, to encourage them to make effective use of Computer and Information technology and other support services.

The staff of Computer Centre is involved in software development, apart from being a support service for the University. Computer Centre maintains University Website to host date-sheets, results, examination forms, online admission and online forms for entrance tests etc.

The Computer Centre is centrally air-conditioned having auxiliary power system to ensure un-interrupted operations. Moreover, the equipment at CC is upgraded from time to time to ensure that the facilities remain at par with the latest technologies.

### **A. C. JOSHI LIBRARY**

#### **Dr. Raj Kumar, Librarian**

Panjab University Library is officially named as A.C. Joshi Library after the illustrious former Vice-Chancellor of Panjab University, Prof. A.C. Joshi. It is one of the largest university libraries of the country. Housed in a five storey centrally air-conditioned building in red stone, it has spacious reading halls and compact stack areas, with open access. With modular design, it is based on modern principles of architecture. The main reading halls of the Library, facing the Shivalik Hills, afford a panoramic view of the natural surroundings.

Endowed with manuscripts on the one hand and online Databases on the other; periodical holdings going back to the 19th century on the one hand and reference material in multimedia on the other; textual and bibliographical material of the pre-Independence period on the one hand and the online sources on the other, Panjab University Library presents a blend of the old and the new under the same roof.

**Facilities:** The Library has a seating capacity for 650 readers. It is a fully computerized library with an integrated system connected to the Campus network and possesses facilities like Wi-Fi, digital signage, photocopying, fax, e-mail, Internet, On-line Public Access Catalogue (OPAC), CD-ROM databases and on-line books and journals. Besides the two main reading halls, there are separate areas for text books, theses and rare books, newspapers, and current periodicals. There is an Outer Reading Hall for studying personal books in the Library that is open round the clock.

There is provision of 24 research carrels for faculty members engaged in serious research work and 100 lockers for research scholars

**OPAC:** Along with Card Catalogue, the Library has in-house database of books, journals, theses and other reading materials. This database is accessible through Online Public Access Catalogue (OPAC) and Web-OPAC through Library website. ([library.puchd.ac.in](http://library.puchd.ac.in)).

**Digital Library:** The Library has a digital library which serves as an access point to all the on line academic resources. The Digital Library is equipped with computers of latest configuration with the facility of CD-writing and print out of journal articles. The Digital Library is augmenting the research activities of the research scholars and teachers. Besides this, the Library has its own Reprographic Section.

**Collection:** The Library houses nearly 7.63 lakh volumes, which include books, bound volumes of journals, theses/ dissertations, rare books, reports, government documents, back files of newspapers and a prized collection of 1492 manuscripts.

The Library is subscribing to 554 current periodicals, a number of which have on-line access along with their print versions. The Library also has access to about 1500 + core and peer reviewed on-line journals and 16 bibliographical databases from publishers & aggregators in different disciplines through UGC's E-Shodh Sindhu programme. These e-resources can be accessed through Campus network. Many on-line journals and miscellaneous reference sources in the public domain are accessible through the Library Website-library.puchd.ac.in. The Library subscribes to a number of e-resources including Science Direct, Scopus, West Law, IEEE, ASME, ACM Digital Library, JoVE, J-Gate, Ebsco, Proquest, Dissertation & Thesis Abstracts, Times of India online, India-stat, Districts of India etc. with links on the website.

**Timings:** The Library is open from 8.00 a.m. to 10.00 p.m. on all days of the week throughout the year, barring national holidays. However, the Outer Reading Hall is open 24x7. Books are issued and returned from 9.00 a.m. to 4.30 p.m., Monday to Friday. However, members can avail issue/return facility after normal working hours through RFID Self-check and Book Drop System.

**Membership:** The membership of the Library is open to bonafide students of the University teaching departments, all teaching and non-teaching staff of the University, fellows of the University, teachers of colleges affiliated to the Panjab University, eminent persons as Special Members, and institutional members under the Industry-Institute Partnership Programme. The facility of online membership has been introduced.

**Reader Services:** Personalized reference service is the hall mark of the Library. Library Orientation Programmes are conducted in the beginning of each academic session for new entrants. A reader can approach any staff member for assistance, though Reference Desks are located in each Reading Hall. Newly processed books are brought to the notice of readers through weekly displays near the entrance of the Library.

The Library also arranges books on inter-library loan to and from other libraries on specific demand. For the purpose of resource sharing, the Library is a member of library networks at the national level like Developing Library Network (DELNET) and Information & Library Network (INFLIBNET) programme sponsored by UGC. The Library provides computer access facility for the visually impaired students, through JAWS & Zoomex softwares.

**Digital Signage System:** The A.C. Joshi library has Digital Signage System to keep the readers aware of addition of recent titles in the library, services and facilities available to readers, information regarding examinations and other lectures and events to be held in the University from time to time & general information.

**JCCC:** The Panjab University Library is one of the 22 libraries designated by INFLIBNET for providing inter-library loan and document delivery services from the comprehensive collection of subscribed journals under its JCCC@UGC-INFONET programme.

**RFID Technology:** The Library is equipped with the latest RFID Technology along with integrated Library Management Software to facilitate efficient issue/return of books including self issue/return, better stacks management, inventory control and an improved security system for books in the Library. There is a Drop Box facility at the entrance of the Library to facilitate round the clock return of books. SMS alert for the users account has been introduced.

**Digitization:** 6404 Ph.D. theses available in A.C. Joshi Library have already been digitized and uploaded on the Shodhganga Platform. Out of the 300 Universities that have signed MOU with INFLIBNET Centre, Panjab University is at present at No.1 position in terms of the number of theses uploaded.

**Inter-Library Loan and Document Delivery Services:** Library is member of DELNET (Developing Library Network) which enables it to utilize the collections and services offered by DELNET as well as its member libraries spread across the country and abroad. If a book or article from a journal required by a researcher is not available in the A C Joshi Library, ILL request can be registered with the Reference Section in the A.C. Joshi Library and the same is procured on Inter-library loan and is supplied to the user.

## BHAI GHANAIYA JI INSTITUTE OF HEALTH

### Dr. D. Dhawan, Chief Medical Officer

'Bhai Ghanaiya Ji institute of Health' has undergone an extensive and elaborate expansion in its health facilities for its employees including retirees, their dependent children, parents and all students both day scholars, evening students and hostel inmates of this University. The existing infrastructure has been thoroughly upgraded with the high-tech latest equipments in the field of Radiology; Clinical Laboratory wings have been created. A washroom has been specifically done up for the differently-abled. The office has been automated resulting in best space use. Five new patient friendly doctors' chambers have been put to use for different specialists.

Presently, BGJ Institute of Health is manned by Chief Medical Officer (One), Ex-Additional Chief Medical Officer (Two), Medical Officer (One). Visiting consultant (One) Full Time Medical Officers on contract basis (Three), Part Time Specialists Gynecologist (One), Medical Specialist (One), Yoga Instructor (One) , Ophthalmologist (One), Pediatrician (one), and Ayurvedic Medical Officer (one).

The supporting staff consists of Chief Pharmacist (Four), Pharmacists (Two), Sister Nurse (One), Multipurpose Health Workers (Female Three) , Dresser (Two), Ward boy (One), Para Medical Attendants (Four Regular and Two contractual), Laboratory Technician (One), Laboratory Assistant (One), Cleaners (Four Regular and Two Contractual). Besides, the office is manned by Superintendent (One), Senior Assistant (One) and Clerk on Daily Wage Basis (One).

They are serving the strong community of about 50,000 (fifty thousand) consisting of students, teachers, non- teaching employees (both serving and retired) along with their dependents and the daily wagers, mess-workers, On contract employees, university delegates, guests, visiting dignitaries etc. The number of patients visiting Health Centre is 350 to 450 per day on an average.

### Regular Scheduled OPD Hours:-

**Morning shift-** 8.30 a.m. to 12.30 p.m. (Monday to Friday)

9.00 a.m. to 11.00 a.m. (Saturdays)

**Evening shift:** 5.00 p.m. to 6.00 p.m. (Monday to Friday)

**Emergency services** { 12.30 p.m. – 5.30 p.m.  
5.30 p.m. – 10.00 p.m. in the premises of BGJ Institute of Health  
10.00 p.m. – 8.30 a.m. (next day) on call  
8.30 a.m. - 8.30 a.m. (next day)  
On all Sundays/gazette holidays- 24 hours on call

**Ambulance Services:** Fully equipped ambulance service is available to all the patients 24x7. The Ambulance service is provided **FREE** to all students and class C employees and their dependents in case of any medical need.

**Medicines:** All the employees both teaching and non-teaching and their dependents and all bonafide students are provided free in stock medicines. The purchases of medicines are made directly from the Pharmaceutical Companies that are on the approved list of BGJ Institute of Health (Medical list). With this arrangement, we are able to save about 50% on the cost of medicines. Medicines worth more than Rs. 55, 00,000/-were purchased this year. About 30 chemist shops/ drug stores in the tri-city are offering a discount of 10% on branded medicines and 30% on generic medicines to P.U. patient. This results in an approximate savings of about Rs.20,00,000/-.

### Diagnostic services:-

- With the installation of highly sophisticated 500mA digitalized version of X-ray machine (Siemens) with a mammographic compatible unit and with a CR system (Fuji) world class X-ray are being done.
- *In a well equipped Clinical Laboratory* having semi automatic analyzer all the routine tests in Hematology, Serology, Biochemistry and Microbiology etc. are being performed.

- *ECGs are being done with 12 channels Schaller ECG machine in a separate ECG room.*
- Emergency and injection room is now equipped with Nebulizers, Oxygen, an emergency medicine cabinet with all emergency drugs, injections etc.

**Chronic Diseases and their drugs distribution:** A separate drug dispensing area is earmarked for patients of chronic ailments e.g. Hypertension, Heart diseases, Diabetes, Epilepsy, Asthma and COPDs Osteo Arthritis etc. The employees and retirees have been benefited by this arrangement.

**Revised National Tuberculosis Control Programme (RNTCP):** The BGJ Institute of Health is an approved designated centre for DOTS under Govt. of India RNTCP. All patients of Tuberculosis are provided anti-tuberculosis drugs as per latest RNTCP guidelines free of cost.

**Vector & Water Borne Diseases Surveillance Centre:** With the collaboration of department of Health (National Vector Borne Wing) Chandigarh Administration, we are running a complete surveillance unit of malaria and dengue other vector borne diseases. Regular sprays and other preventive measures against malaria and other vector borne diseases are being undertaken. All malaria positive patients are notified to the concerned higher health authority of Chandigarh (U.T.).

**Communicable Diseases and their Monitoring:** Special arrangements are made every year to monitor all communicable diseases in coordination with the UT health services and to create awareness among both the employees and students. A number of cases of conjunctivitis are also reported every year. Records of patients having symptoms like cough, cold and fever are maintained separately to facilitate accurate monitoring. The staff of Institute of Health has been immunized against Hepatitis-B.

**Yoga Classes:** Yoga classes are being conducted regularly under the supervision of a qualified Yoga- Instructor.

- (i) 5pm to 6pm ( BGJ Institute of Health Sector 14) Monday to Friday
- (ii) 6pm to 7pm ( Community Centre, Sector 25 ) Monday to Friday

**Academic and Social Activities:** The Medical doctors of the Institute of Health are regularly engaged as guest and honorary faculty in the subjects of Medicine, Surgery, Sports Medicines and Exercise Physiology etc. They regularly participate in continuing Medical Education/programmes throughout the year. They have delivered lectures on medicine, Drugs, Alcohol and Substance Abuse, Health Concerns, Health and Teachers at Chandigarh Judicial Academy, Rajiv Gandhi National Law University Patiala and Kendra sangthan. (Union Ministry of Human Resource and Development) and Department of various Department of Panjab university etc.

### Fee Structure for the session 2017-18

Sr. No	Session 2017-18	Tuition Fee	Maintenance/ User Charges	Contribution to Funds	1 <sup>st</sup> Sem.	2 <sup>nd</sup> Sem.
					Ist installment to be paid at the time of Admission (i.e Half of Tuition fee +full Other Charges/Contribution to Funds)	2nd Installment
<b>A.</b>	<b>Partially Self Financing Courses</b>					
<b>1</b>	<b>Uni. Inst. of Emerging Areas in Science &amp; Tech.</b>					
	M.Sc (Microbial Bio-Tech)	48840	32872	4765	62057	24420
	Master in Public Health (Open)	48840	2812	4765	31997	24420
	Master in Public Health( in Service)	71940	2812	4765	43547	35970
	M.Sc. In System Biology & Bio Infor.	37290	2812	4765	26222	18645
	M.Sc in Nuclear Medicine	37290	2812	4765	26222	18645
	M.Sc. In Medical Physics	37290	2812	4765	26222	18645
	M.Tech (Nano-Science & Nano Tech.)	17610	4732	4765	18302	8805
	M.Sc. In Stem Cell & Tissue Engg.	78870	2812	4765	47012	39435
<b>2</b>	<b>Uni. Inst. of Emerging Areas in Social Science</b>					
	M.A. In Social Work	37290	1372	4765	24782	18645
	M.A. in Police Admn (Open)	25465	1372	4765	18870	12733
	M.A. in Police Admn (in Service)	37290	1372	4765	24782	18645
	M.A. in Human Rights and Duties	25465	1372	4765	18870	12733
<b>3</b>	<b>Computer Science &amp; Applications</b>					
	MCA(Evening)	71940	8092	4765	48827	35970
<b>4</b>	<b>Dr. S.S. B. Uni. Instt. Of chem Engg &amp; tech</b>					
	BE (Chem.) with MBA 5 yr Int. Course	77730	1847	4765	45477	38865
<b>5</b>	<b>Physics</b>					
	B.Sc(HS) in Physics & Elec.	37290	12347	3965	34957	18645
	M.Sc. (HS) in Phy & Elec.	48840	17122	3965	45507	24420
<b>6</b>	<b>A.I.H.C.A</b>					
	i) Certificate course in arts appreciation	19110	1372	3555	14482	9555
	ii) Diploma in Heritage Tourism	19110	1372	3555	14482	9555
<b>7</b>	<b>English</b>					
	(Proficiency in English Spoken & IELTS)	12740			12740	
<b>8</b>	<b>Community Edu. &amp; Disability Studies</b>					
	i) MA in Community Edu.	19120	1372	3555	14487	9560
	ii) B.Ed Special Edu. In learning Disability.	25465	1372	4765	18870	12733
	iii) M.Ed Special Edu. In Learning Disability.	27490	1372	4765	19882	13745



<b>9</b>	<b>Centre for Def. &amp; National Securities</b>					
	One year post Graduate Dip.In Disaster Mgt & Sec.	25465	1372	4825	18930	12733
	3 months excutive certificate course in Dis. Mgt & Sec	12740			12740	
	One year post granduate Dip.in Home Land Security	15280	1372	4825	13837	7640
	M.Phil	12740	1372	3555	11297	6370
<b>10</b>	<b>Ins. of Forensic Sec. &amp; Criminolgy</b>					
	M.Sc.(FSC) (Open)	60390	2812	3965	36972	30195
	M.Sc.(FSC) (In Service)	71940	2812	3965	42747	35970
<b>11</b>	<b>School of Communication Studies</b>					
	PG Dip in Advertising & Public Relations, Hindi & Punjabi Journalism	25465	1372	4765	18870	12733
<b>12</b>	<b>UIAMS</b>					
	MBA (All streams)	233640	1372	4765	122957	116820
<b>13</b>	<b>Uni.Inst. of. Pharmaceutical Science(UIPS)</b>					
	i) M.Pharm in Pharmaceutical Quality Assurance	233640	53872	4765	175457	116820
	ii) M.Pharma in Pharmaceutical Analysis	233640	53872	4765	175457	116820
<b>14</b>	<b>UIHMT</b>					
	B.Sc. In Hospitality & Hotel Mgt	60390	3527	4765	38487	30195
	B.Sc. In Tourism Mgt	37290	3527	4765	26937	18645
<b>15</b>	<b>Uni. Inst. of Fashion Tech. &amp; Voc. Dev.(UIFT)</b>					
	B.Sc. In Fashion & Life Style Tech.	60390	3527	4765	38487	30195
	M.Sc. In Fashion & Life Style Tech.	95040	2812	4765	55097	47520
<b>16</b>	<b>S.S.G.P.U.R.C, Hoshiarpur</b>					
	Master in Computer Applications(MCA)	71940	8092	4765	48827	35970
	B.E. Courses	62700	12872	4625	48847	31350
	LL.B (3 Yrs Course)	22925	1372	15755	28590	11463
	B.A., LL.B (5 Yrs Integ. Course)	60390	2647	9055	41897	30195
<b>17</b>	<b>P.U.Regional Centre, Ludhiana</b>					
	MBA	175890	1372	4765	94082	87945
	LL.B (3 yrs course)	22925	1372	15755	28590	11463
	B.A., LL.B(5 yrs Integ. Course)	60390	2647	9055	41897	30195
	L.LM (One year course)	71720	2172	9055	47087	35860
<b>18</b>	<b>Inst. Of Edu. Tech. Vocational Edu.(IET &amp;VE)</b>					
	BA/B.Ed 4 yrs Int. Course B.A.(Hons.) Edu. B.Ed Elementary, Secondary	25465	1847	4765	19345	12733
<b>19</b>	<b>Uni. Centre of Inst. &amp; Microelectronics</b>					
	M.Sc. Instrumentation	76560	2812	4765	45857	38280

<b>20</b>	<b>Geography</b>					
	Master in Remote Sensing & GIS	34980	1372	4765	23627	17490
	Masters in Disaster Mgt	37290	1372	4765	24782	18645
<b>21</b>	<b>Psychology (Post M.A.(Diploma) (One year)</b>					
	Professional Counsling and Psychotherapy	31515	1372	4765	21895	15758
	Psychological Testing	31515	1372	4765	21895	15758
<b>22</b>	<b>Uni.Inst. Of Engineering &amp; Technology (UIET)</b>					
	BE Courses	62700	12872	4625	48847	31350
<b>23</b>	<b>Dr.Harvansh Singh Judge.Inst.Dental Sci. &amp; Hospital(Dental)</b>					
	i) (4 Years BDS Courses)	95040	17857	5635	118532 (P.A)	
	ii) (MDS Course)	441320	1372	5635	448327 (P.A)	
<b>24</b>	<b>Uni.Inst. Of Leagal Studies (UILS)</b>					
	BA/B.Com LL.B(5 yrs Integ. Course)	60390	2647	9055	41897	30195
	L.LM (One/Two year Course)	71720	2172	9055	47087	35860
<b>B</b>	<b>Traditional Courses</b>					
<b>1</b>	B.A./B.Com. ( Evening St.)	2700	1847	3945	7142	1350
<b>2</b>	B.Sc.(Hons)	2820	3527	3965	8902	1410
<b>3</b>	B.Sc.(H.S.) in Math	2820	2327	3965	7702	1410
<b>4</b>	B.Sc.(H.S.) Maths & Computing	2820	17487	3965	22862	1410
<b>5</b>	B.Sc.(H.S.)( Bio-Tech)	2820	10727	3965	16102	1410
<b>6</b>	B.Sc.(H.S.) in Computer Science	2820	19597	3965	24972	1410
<b>7</b>	B.A.(Hons) in Economics	8360	2947	3555	10682	4180
<b>8</b>	B.A.(Hons) in Social Science)-PUISSER	8360	2947	3555	10682	4180
<b>9</b>	B.A.(Hons.) in Hist.Geog, Philos, Pol.Sci., Psy, Pub. Admn, AIHC & Arch.	5590	1847	3555	8197	2795
<b>10</b>	B.PED	2940	1612	4765	7847	1470
<b>11</b>	M.A.(All Evening Studies)	2940	1372	4145	6987	1470
<b>12</b>	M.A.(Humanities)	2940	1372	3555	6397	1470
<b>12A</b>	M.A (Comparative study of Religions)	11000	1372	3555	10427	5500
<b>13</b>	M.A. Sanskrit, Prak Shashtri and Acharya Courses	0	1372	3555	4927	0
<b>14</b>	M.A.(Psychology)	2940	1852	3555	6877	1470
<b>15</b>	M.A,(H.S) Economics	12810	2472	3555	12432	6405
<b>16</b>	M.Sc.(Hons)	2940	2812	3965	8247	1470
<b>17</b>	M.Sc. Env.Science	16030	7992	3895	19902	8015
<b>18</b>	M.Sc. Industry Chemistry	16030	7992	3895	19902	8015
<b>19</b>	M.Sc. (Human Genomics)	23430	11092	3965	26772	11715
<b>20</b>	M.Sc. Maths/ Stats	2940	1852	3965	7287	1470
<b>21</b>	M.Com (Hons.) UBS	34720	3412	4765	25537	17360
<b>22</b>	M.Com	3780	1372	3555	6817	1890

23	M.Ed (Gen)	3780	1852	4765	8507	1890
24	M.Ed (Evening)	4380	1852	4765	8807	2190
25	M.PED	3780	1852	4765	8507	1890
26	M.Phil (Arts)	3780	1372	3555	6817	1890
27	M.Phil Science & Psychology	3780	1852	3965	7707	1890
28	Certificate/Diploma/Advance Diploma Courses	2940	1372	3210	6052	1470
29	Diploma in Translation English/Hindi/Panjabi	2940	1372	4825	7667	1470
30	Diploma in Pre-School Education	12740	1372	4825	12567	6370
31	Diploma in Forensic Science & Criminology(Anth.)	4380	1852	3965	8007	2190
32	Diploma in Education Management	4380	1852	4825	8867	2190
33	Diploma in Export Management	13775	2042	4485	13415	6888
34	Diploma in Advance Scientific Computation	10870	8712	4825	18972	5435
35	Post M.Sc.(One Year) Special Course Accelerator (Physics)	2940	2812	4765	9047	1470
36	Post Grd. Dip. In Research Methodology & Statistics	12740	1372	4765	12507	6370
37	P.G. Dip. In Buddhist Studies	3770	1372	2825	6082	1885
38	P.G. Dip. in Women's Studies	Fee to be announced later				
39	<b>P.G. Dip in Remote Sensing and Geog.Infor.Sys Course</b>					
	i) Indian National	25905	4252	4765	21970	12953
	ii)Sponsored Candidate Govt. Inst.	18865	4252	4765	18450	9433
	iii) Foreign Students	101510	4252	4765	59772	50755
40	Hobby Classes in Music	4380			4380	
<b>C</b>	<b>Professional Courses</b>					
1	LL.B (3 Years Course)	4500	1372	4515	8137	2250
2	B.E.(Chemical/Food Tech.)	8495	5207	4765	14220	4248
3	B.Pharmacy	5590	3167	4765	10727	2795
4	M.Sc.(Bio-Tech)	12300	19132	4765	30047	6150
5	M.Tech.Inst.(UCIM), M.Tech Polymer &ME(Chemical),M.Tech UIET Mat.Sci, MicroElect. ME (Chemical with Env. & Engg), ME(Food Tech) (UICET)	16160	4732	4765	17577	8080
6	M.Pharmacy	16160	4732	4765	17577	8080
7	MBA, MBA (IB) & MBA (HR)	10340	1372	4765	11307	5170
8	MBA for Executive	89320	1372	4765	50797	44660
9	ME (UIET)	14135	4252	4765	16085	7068
10	MCA (Morning)	16160	8092	4765	20937	8080
11	B.Lib/M.Lib	6515	2572	4765	10595	3258
12	MA (Journalism & Mass Communication)	6515	4732	4765	12755	3258
13	LL.M (One year Course)	16170	3122	6205	17412	8085

**Note: The Departmental Funds shall be charged separately as applicable as per Hand Book of Information 2017**

## II Departmental Fund

1.	L.L.M one year Course	1. Law Review fee 2. I Card Fee 3. Library and Reading Room fee 4. Dinner & Social Function Fee 5. Computer Lab Charges 6. Legal Aid Fee 7. Visit to other Educational Institute. 8. Special Lecture Fee 9. Up keeping Institution Fund 10. Seminar and Conferences 11. Law Alumni Fee 12. Convocation Fee (at Entry Level) 13. Library Security (Refundable)	1000/- p.a. 40/- p.a. 3500/- p.a. 1000/- p.a. 3000/- p.a. 150/- p.a. 2500/- p.a. 1500/- p.a. 2500/- p.a. 4500/- p.a. 1000/-p.a. 1000/- p.a. 1000/-p.a.
		<b>Dissertation and term fee Charges</b>	
		1. <b>Dissertation fee</b>	2000/-
		2. <b>Term paper Fee Extension Fee of dissertation after due date</b>	1500/-
		A) For Six months	1210/-
		<b>Extension Fee of dissertation after due date</b>	
		1. <b>For three months</b>	750/-
2.	University Institute of Emerging Area in Science & Technology	M.Tech Nano Science & Nano Technology	3750/- per sem. Contingency
3.	University Institute of Applied Management Science	<b>MBA</b> i) Retail Mgt ii) Banking & Insurance iii) Telecommunication & I.T. iv) Infrastructural Management v) Pharmaceutical Management vi) Hospital Mgt	10,000/- Summer Placement
4.	University Institute of Hotel & Tourism Management	i) B.Sc. in Hospitality & Hotel Administration ii) B.Sc. in Tourism Management	3,000/- p.a. student activities fund
5.	University Institute of Fashion Technology & Vocational Development	i) B.Sc. in Fashion & Life Style Technology ii) M.Sc. in Fashion & Life Style Technology	Rs. 5000/- per sem Charges for display exhibition other fashion events to be given to UIFT for organizing such events
6.	Panjab University, Chandigarh, P.U. R.C Ludhiana & SSGPURC, Hoshiarpur (B.A. LL.B (Hons) Five years integrated course)	i) Library & Computer Fund ii) Practical Training fund/Moot Fund iii) Law Review/ Magazine Fund iv) Placement Fund v) Social Function Fund vi) Visit to other educational/ justice institutional Fund vii) Special Lecture Fee viii) Educational & Cultural Exchange Fund and Alumni Membership Fee ix) Up keeping of Institution fund x) Library Security (Refundable)	3000/-p.a. 2000/- p.a. 200/- p.a. 500/- p.a. 500/- p.a. 500/- p.a. 500/- p.a. 500/- p.a. 600/- p.a. 1500/- p.a. 250/-p.a.

7.	1. University Institute of Legal Studies 2. P.U.R.C.Ludhiana <b>(L.L.M one/two year Course)</b>	i. Library & Computer Fund	5000/-p.a.
		ii. Practical Training fund/Moot Fund	5000/- p.a.
		iii. Law Review/ Magazine Fund	1000/- p.a.
		iv. Placement Fund	500/- p.a.
		v. Social Function Fund	500/- p.a.
		vi. Visit to other educational/ justice institutional Fund	2000/- p.a.
		vii. Special Lecture Fee	5000/- p.a.
		viii. Educational & Cultural Exchange Fund and Alumni Membership Fee	1500/- p.a.
		ix. Up keeping of Institution fund	5000/- p.a.
		x. Convocation Fee	1000/- p.a.
		xi. Identity Card fee Library Security (Refundable)	100/- p.a. 5,000/- p.a..
8.	Physics	Post M.Sc. (One Year) special course Accelerator Physics	Rs. 2500/- p.a. (Contingency)
9.	University Institute in Emerging Area in Social Science	M.A. in Social Work	Rs. 7000/- ( one time field work experience)

### III Fee structure for Foreign National/PIO/NRI Candidates admitted against the seats created for them in some teaching Departments:-

Sr. No	Class/Course	Tuition Fee US \$	Development Fund US\$	Total Fee US\$
1.	University Business School			
	(i) M.B.A. (Gen IB, HR, Executive) (ii) M.Com. (Hons.)	6430 1815	715 200	7145 p.a. 2015 p.a.
2.	Computer Science & Application			
	(i) M.C.A. (ii) M.C.A. Evening (iii) M.Sc. (Hons)	4900 4375 1835	545 485 205	5445 p.a. 4860 p.a. 2040 p.a.
	3. Dr. S.S. Bhatnagar University Institute of Chemical Engg. & Tech			
	(i) B.E. (Chemical) (ii) B.E. with MBA (iii) M.Tech. (Polymer) (iv) M.Sc. (Ind Chem) (v) M.E (Chemical)	6125 4375 3680 1835 3665	680 485 410 205 405	6805 p.a. 4860 p.a. 4090 p.a. 2040 p.a. 4070 p.a.
	4. University Institute of Pharmaceutical Sciences			
	(i) B.Pharm (ii) M.Pharm	3680 3665	410 405	4090 p.a. 4070 p.a.
	(iii) M.Pharma (Drug Discovery & Drug Development pharmaceutical)	Rs. 546975/-	Rs. 60775/-	Rs. 50,000/- as Contingency (ii) only Rs. 607750/- p.a.
	5. B.Sc. (H.S) Science Deptt. Anthropology, Botany, Chemistry, Geology, Mathematics, Physics & Zoology	1220	135	1355 p.a.
6.	B.Sc. (H.S) Basic Medical Science Deptt. of Bio-Chemistry, Bio-Physics & Microbiology	1835	205	2040 p.a.

7.	M.Sc. (H.S) Science Deptt. Anthropology, Botany, Chemistry, Geology, Maths, Physics & Zoology	1835	205	2040 p.a.
8.	M.Sc.(H.S) Basic Medical Science, Biochemistry, Biophysics & Microbiology	2455	270	2725 p.a.
9.	M.Sc. (Deptt. of Statistics )	1835	205	2040 p.a.
10.	University Institute of Engg. & Technology			
	(i) B.E. Courses	6125	680	6805 p.a.
	(ii) M.E. Courses	3665	405	4070 p.a.
	(iii) M.Tech. (Microelectronics)	3680	410	4090 p.a.
11	Deptt. of Bio-Technology/ Forensic Science & Criminology (M.Sc.)			
	(i) B.Sc. (H.S)	2455	270	2725 p.a.
	(ii) M.Sc.	3665	405	4070 p.a.
12.	Centre for Environment & Voc. Study / Human Genome (M.Sc.)	1835	205	2040 p.a.
13.	RSIC/UCIM M.Tech. (Instrumentation)	3680	410	4090 p.a.
14	Deptt. of Physical-Education B.P.Ed & M.P.Ed	1220	135	1355 p.a.
15	M.A. All Subjects	1220	135	1355 p.a.
16.	Deptt. of Laws			
	(i) LL.B (3 year course)	2455	270	2725 p.a.
	(ii) LL.M (1 year course)	2475	275	2750 p.a.
17.	Deptt. of Library & Information Science (B.Lib/M.Lib & Inf. Science.)	1835	205	2040 p.a.
18.	School of Communication Studies M.A. (Journalism & Mass Communication)	3665	405	4070 p.a.
19.	Deptt of Economics / PU-ISSER			
	(i) B.A. (H.S) (5 year integrated programme)	1220	135	1355 per sem.
	(ii) M.A. (H.S) -do-	1835	205	2040 per sem.
	(iii) M.A.	1220	135	1355 p.a.
20.	PURC Ludhiana			
	(i) B.A. LL.B	2455	270	2725 p.a.
	(ii) LL.B	2455	270	2725 p.a.
	(iii) MBA	6430	715	7145 p.a.
	(iv) LLM	2600	290	2890 p.a.
21	University Institute of Legal Studies Chd/SSGPURC Hoshiarpur			
	i. B.A. LL.B	2455	270	2725 p.a.
	ii. L.L.M	2600	290	2890 p.a.
22	Dr. Harvansh Singh Judge Institute of Dental Science & Hospital			
	i) B.D.S 1 <sup>st</sup> year	17520	1945	19465 p.a.
	ii) B.D.S 2 <sup>nd</sup> & 3 <sup>rd</sup> year	5840	650	6490 p.a.
	iii) B.D.S 4 <sup>th</sup> year	8760	975	9735 p.a.

23	University Institute of Emerging Areas in Science & Technology			
	i) M.Sc. (Microbial Bio-Tech)	131275	14585	145860 p.a.
	ii) Master in Public Health	1815	200	2015 p.a.
	iii) M.Sc. in System Biology & Bio Informatics	2410	270	2680 p.a.
	iv) M.Sc. in Nuclear Medicine (Bio-Phy)	1815	200	2015 p.a.
	v) *M.Sc. in Medical Physics	1815	200	2015 p.a.
	vi) M.Tech Nano Science & Nano Tech	3665	405	4070 p.a.
	vii) M.Sc in Stem Cell & Tissue Engg	131275	14585	145860 p.a.
24	University Institute of Fashion Technology & Vocational Development			
	(i) B.Sc. in Fashion & Life Style Tech	3610	400	4010 p.a.
	(ii) M.Sc. in Fashion & Life Style Tech	3665	405	4070 p.a.
25	University Institute of Hotel & Tourism Management			
	(i) B.Sc (HHA & TM)	3610	400	4010 p.a.
27.	Psychology (Post M.A. Diploma one Year)			
	(i) Professional Counseling & Psychotherapy	1835	200	2035 p.a.
	(ii) Psychological Testing			
28.	Physics			
	i) B.Sc. (H.S) in Physics & Electronics	2190	245	2435 p.a.
	ii) M.Sc.(H.S) in Physics & Electronics	3665	405	4070 p.a.
29.	University Institute of Applied Management Science (MBA)			
	i) Retail Mgt			
	ii) Banking & Insurance			
	iii) Telecommunication & I.T.	5,46,975	60,775	6,07,750 p.a.
	iv) Infrastructural Management			
	v) Pharmaceutical Management			
	vi) Hospital Mgt			
30.	University Institute of Emerging Area in Social Sciences			
	i) M.A. (Social Work)			
	ii) M.A. (Police-Administration)	1815	200	2015 p.a.
	iii) M.A. (Human Rights & Duties)			
31.	M.Phil Courses (Arts/Science)	1200	150	1350 p.a.
32.	Defence & National Securities Studies / Life long learning & extension			
	(i) PG Diploma in Disaster Management & Security	1080	120	1200 p.a.
	(ii) PG Diploma in Homeland Security			
	(iii) Diploma in Pre-school Education			
33.	Certificate/Diploma/Advance Diploma Courses	1080	120	1200 p.a.
34.	Geography / Community Education & Disability Studies			
	(i) Master in Remote Sensing/ Disaster Management	1815	200	2015p.a.
	(ii) B.Ed / M.Ed Special Education			

35.	Fee for Direct Admission of Students Abroad (DASA) DR. SSB UICET/UIET	3600	400	4000 p.s.
	(i) Nationals of SAARC Countries are eligible for 50% tuition fee waiver and will have to pay \$2000 towards 1 <sup>st</sup> and every subsequent semesters and			
	(ii) For children of Indian workers in Gulf Countries the fee is at par with resident citizens. The fee of US \$700 has been charged towards tuition fee by DASA for one semester will be adjusted in the 1 <sup>st</sup> installment as applicable to resident students of UIET & DR. SSB UICET.			

#### **IV Tuition Fee for Foreign Nationals (Whether person of Indian origin) or not and applying for General Category Non- Reserve seats.**

		Tuition Fee (p.a.) U.S.\$	
1.	First Degree Courses		340
2.	Master Degree Course/M.Phil		685
3.	Certificate Course		220
4.	Post Graduate Diploma/Advance Diploma Course		685
5.	Diploma Course in Translation		340
6.	Diploma Course in Forensic Science & Criminology	76,560	To be charged in two installment

#### **V Tuition Fee for Professional Courses for Foreign Nationality Students whether person of Indian Origin or not and applying for General Category Non-Reserved seats.**

		Tuition Fee (p.a.) To be charged in two installments	
1.	LL.B (3 year course)		26,760
2.	B.E. (Chemical & Food Tech) / M.Tech (Micro-Electronics) UIET		93,240
3.	B.E. (UIET)		81,000
4.	B.Pharmacy		93,240
5.	M.Sc. (Bio-Tech)/M.Tech (Instrumentation)		93,240
6.	M.Tech (Polymer) / M.Sc. (Industrial Chemistry)		1,53,720
7.	MBA/MBA(IB & HR)		1,84,080
8.	M.E. (Chemical)		1,53,720
9.	MCA		1,53,720
10.	M. Lib & Inf. Science		47,760
11.	LL.M		47,760
12.	M. Pharmacy		1,84,080
13.	M.A (Journalism & Mass Communication)		63,000

#### **Maintenance/User Charges**

1.	(i) Admission Fee	250
	(ii) Admission Fee (LLM one year) Law	2000
	(iii) Admission Fee (B.A/B.com LLB/LLM UIIS/LDH/HSP)	1050



2.	Dilapidation Fee	
3.	World University Service Fund	
4.	Medical Fee	
5.	Campus Cleanliness	1322 p.a. (All teaching Departments)
6.	Service Tax Fee 1 p.m.	3012 p.a. (LLM Law)
7.	Group Insurance Scheme	2122 p.a. (UILS, Ldh)
8.	Charges for providing I.T. facilities	
9.	Admission form	
10.	University Migration Fee	
	(a) For only those candidates who have passed the lower examination from another University or Board or Council	300 p.a.
11.	Registration Fee	
	(a) From those coming from other University/ Boards /Council.	150 p.a.
	(b) From Foreign/NRI's against seats in General Category	US \$ 485
	(c) From Foreign National/PIO/NRI students, irrespective of the Lower examination passed by them from a Foreign/ Indian Universities/ Board	US \$ 715
12.	Enrolment Fee	
	(a) (Other than M. Phil)	100 p.a.
	(b) M. Phil courses (From those who are not regd. with P.U., Chandigarh earlier)	250 p.a.
13.	Continuation Fee	25 per sem (50) p.a.
14.	Foreign Students Welfare Fund (Foreign students only)	620 p.a.
15.	Environment Fee (only for under graduate courses)	250 p.a.
16.	Re-admission Fee <b>(each time)</b> With permission of Chairperson With permission of D.U.I	150
17.	<b>Late Fee</b> With permission of Chairperson With permission of Vice-Chancellor	560 2040

### **Fees/funds/charges from the students to be kept in separate accounts**

1.	(i) Library Security (Refundable)	250 p.a.
	(ii) B.A./B.Com (Evening Studies)	640 p.a.
	(iii) M.A. (All) (Evening Studies)	840 p.a.
2.	University Sports Fee & University Sports Dev. Fee (170+40)	210 p.a.
3.	Youth Welfare Fund	80 p.a.
4.	Students Holiday Home Fund	60 p.a.
5.	Student Aid Fund	50 p.a.
6.	Campus sports Fee	290 p.a.
7.	Student Scholarship Fund	80 p.a.
8.	(i) Placement Fee (all teaching deptts/ regional centres)	150 p.a.
	(ii) LLM one year (Law Deptt)	1000 p.a.

9.	P.U. Alumni House & Scholarship Fund	20 p.a.
10.	NSS	25 p.a.
11.	<b>Amalgamated Fund</b>	
12.	Amalgamated Fund	<b>1460/- For Semester System 1520/- For Annual System</b>
	<b>Development Fund</b>	
(a)	Students studying for Professional Courses	2090 p.a.
(b)	Students studying for Science Courses	1290 p.a.
(c)	Students studying for other Courses	880 p.a.
(d)	Students studying for LLM one year course (Law)	2930 p.a.
(e)	Students studying for B.A/B.com LLB/ LLM one or two year course (UILS/Hsp/Ldh)	6630 p.a.
(f)	UIET	1950 p.a.
(g)	Dr. Harbansh Singh Judge Dental sci. and Hospital	2960 p.a.
(h)	LLB 3 year course Ludhiana and Hsp	13080 p.a.
(i)	M.Sc. Environment Sci. and Industrial Chemistry	1220 p.a.
(j)	Diploma in export Mgt.	1810/- p.a.

#### DEPARTMENTAL CHARGES OF DEPARTMENT OF LAWS

(a)	Library Security (Refundable)	190 p.a.
(b)	Library & Reading Room Fee	50 p.m.
(c)	Identity Card Fee	40 p.a.
(d)	P.U. Law Review Fee	500 p.a.
(e)	Moot Fee	125 p.a.
(f)	Dinner & Special Function fee	250 p.s.
(g)	Legal Aid Fee	110 p.a.
(h)	Convocation fee (at entry level)	1000 p.a.

#### Departmental charges of Evening Studies

##### (Parking Fee)

Cycle	Free
Scooter	40 p.m.
Car	70 p.m.

#### To be charged by the specific departments

1.	Club Fee (Members only)	
	Tennis	1210 p.a.
	Film	240 p.a.
2.	Computer Fee (If computer is an elective subject and not a compulsory subject in a course)	80 per paper if offered in course
3.	Summer Training	740 p.a.
4.	Parking Fee	
	Cycle	Free
	Scooter	40 p.m.
	Car	70 p.m.

#### NOTE:- FOR FOREGIN NATIONAL/NRI CANDIDATES

- Tuition fee shall be payable annually in the form of bank draft in US dollars/Pounds, sterling/Deutschmark or equivalent amount in Indian currency payable to the Registrar, Panjab University at Panjab University at Chandigarh along with a bank certificate for encashment of Foreign currency of the like amount.

2. In addition to tuition fees, the students shall pay Registration fee **US \$ 715** or **US \$ 485** as the case +all other dues and charges to the Panjab University as payable by other students of the same class belonging to same category in foreign currency or in Indian Rupees as per university Rules and Regulations.

**IMPORTANT NOTE:-**

- That Rs 1 p.m. all the students Registered with P.U as a Service Tax and property Tax levied by the Chandigarh Administration.
- All the students at the time of initial enrolment to Panjab University courses on the campus or in the affiliated Institution shall pay Rs. 20/- towards P.U. Alumni House and Scholarship Fund. The money collected by the Affiliated Institution shall be remitted to the said Fund. 20% of the amount so collected by distributed proportionately for award of Scholarship to the University and College students.
- The other charges of Short-term courses the fix charge will be recovered in full other charges on the monthly basis shall be charged as per the duration of the course per month.
- An extra fees of Rs. 4,940/- p.a. be charged from each student obtaining optional paper (671) Numerical Analysis and computation in M.Sc. Math and pass course at the 2<sup>nd</sup> year level.
- The fee in 3<sup>rd</sup> year of M.Sc. in Medical Physics during internship period shall be 50% of the 2<sup>nd</sup> year.
- Forms complete in all respect for grant of any type of fee Concession (i.e. Student Aid Fund, Poverty Basis, Brother-Sister, Ward of P.U. Employee/Freeship, etc must be received in the University office Accounts Branch-II (Students Section) by 30 November 2017 along with requisite documents. No further intimation/Circular will be issued in this regard. Fee concession forms/refund of fee forms will be available on the P.U. website ([www.puchd.ac.in](http://www.puchd.ac.in))
- Three months executive certificate course in Disaster Mgt in Security (kept on hold from the admission 2015) as per syndicate Para 19 dated 08.03.2015.

## GENERAL REFUND OF FEE RULES

### I. Departments where waiting list is being prepared

In this case, the fee refund cases be considered as per the provisions conveyed by the UGC vide Notification No. F.No. 1-3/2007 (CPP-II) dated 23.4.2007 relevant part of which is as under :-

“In the event of a student/candidate withdrawing before the starting of the course, the waitlisted candidates should be given admission against the vacant seat. The entire fee collected from the student, after a deduction of the processing fee of not more than Rs.1000 (one thousand only) shall be refunded and returned by the Institution/ University to the student/candidate withdrawing from the programme. Should a student leave after joining the course and if the seat consequently falling vacant has been filled by another candidate by the last date of admission, the institution must return the fee collected with proportionate deductions of monthly fee and proportionate hostel rent, where applicable.”

### Departments where no waiting list is being prepared and the admissions are being done on the basis of merit in the various counselling sessions.

The fee refund cases under this category shall be dealt with as under :-

**(i) Students leaves before the last counselling**

Full fee deposited by the student shall be refunded after deducting Rs. 1000/- as processing charges and proportionate deduction depending upon the period he remained on University roll.

**(ii) Students leaves after last counselling**

(a) Full fee deposited by the students shall be refunded after deducting Rs. 1000/- as processing fee and proportionate deduction **in case full seats were not filled up in the last counselling.**

(b) 50% of the fee deposited by the student shall be refunded after deducting Rs. 1000/- as processing fee and proportionate deduction, **in case full seats were filled up in the last counselling.**

(c) In case, the department has **provision for admission after the last counselling date (e.g. lateral entry or migration)** then the balance 50% of fee deposited by the student shall also be refunded in case the seat vacated by the student in the last counselling is filled up thereafter after producing a certificate from the Chairperson/Director of the concern Department in this regard.

*(Vide Syndicate Para 12, dt. 4-12-2009)*

**Note :-**

1. The proportionate deduction may be calculated on the basis of number of days from the date of admission of the student i.e. on the day he/she deposits fee and becomes on the roll of the College/ Department/Institute till his leaving the course. This deduction will be in addition to the processing fee of Rs. 1000/-.
2. For this purpose, he/she must apply for refund on the prescribed refund application form through the Head of the Department to the Assistant Registrar Accounts-II.  
That the time-period for applying refund of fee by the students be fixed up to 30th November. Refund forms will be available at the P.U. Website forms.puchd.ac.in
3. But in all other Cases of the students continuing their studies, the Library Security will be refunded if he/she will apply within six months from the date of leaving the Department/Institute/Centre/Regional Centre after completing the full course of studies.

**II. Refund of Fee Rules of NRI Category and Foreign Nationals**

1. In case, the candidate is admitted in the Foreign/NRI category and leaves the course & the seat vacated by a candidate is filled by granting admission to another applicant against the vacated seat, the tuition fee may be refunded to the person after deduction of 10% of the tuition fee as administrative charges. In case a seat vacated by such a candidate is not filled, the tuition fee may be refunded after deduction of 25% of the tuition fee as administrative charges. This will be applicable only in the case where the candidate has left the University Department/Institute/ Centre/Regional Centre & did not join any other course in the Panjab University. All other funds and charges including Development Fund, in no case, shall be refunded. For this purpose, he/she must apply for refund on the prescribed refund application form through the Head of the Department to the Assistant Registrar Accounts-II. That the time period for applying refund of fee by the students be fixed up to **30<sup>th</sup> November**. However, all other funds & charges including development fund, shall not be refunded under any circumstances, except refundable Library Security.
2. If a student originally gets admission in a University Department/Institute/Centre /Regional Centre under Foreign/ NRI category or in General/Reserve Category and leaves the same for joining another course in the same Department or another Department/Institute/ Centre/Regional Centre in the Panjab University during subsequent counselling of Foreign/NRI category or in General/Reserved Category, his/her tuition fee, registration fee and other charges including Development Fund shall be adjusted on admission in the later course/Department/Institute /Centre/ Regional Centre in the same session only. If there is any excess amount still left after the fee adjustment i.e. balance sum if any, shall be refunded after a deduction of Rs.500/- (Rs. five hundred only) as Administrative charges.

**Provided :-**

- (i) If a student is shifted from NRI/Foreign to General/Reserved category then the Registration Fee and Development Fund already charged from such students shall be refunded fully in case the seat vacated by such NRI/Foreign student is filled by the another same category.
- (ii) In case the seat vacated by NRI/Foreign student in consequence of his/her shifting to General/Reserved Category is not filled by any other candidate of same category then the Registration Fee & Development Fund already charged from such student shall be adjusted in the same Department/Institute/Centre only to the extent of the Registration Fee & Development Fund as applicable to the General/Reserved student in the same session only the balance of Registration Fee & Development Fund shall neither be adjusted/carried forward nor be refunded any circumstances.
- (iii) In case due to unavoidable circumstances, on shifting to another course in the same Department or another Department/Institute/Centre/Regional Centre of the Panjab University a student has again deposited the tuition fee, development fund and other charges in the later Department/Institute/Centre/Regional Centre of the Panjab University, his/her tuition fee and other charges deposited in the earlier Department/ Institute/ Centre/Regional Centre shall be refunded as per (i) and (ii) above.
- (iv) The 'Excess Fee' deposited by the ongoing student/s shall be refunded after a deduction of Rs.500/- (Five hundred) as administrative charges as in case of freshly admitted students under Rule no. 2.  
*(Vide Syndicate Para 26, dt. 4-1-2014, 16-1-2014)*
- (v) For adjustment/refund, he/she must apply on the prescribed refund application form for adjustment/refund of the tuition fee and other charges as the case may be within 15 days from the date of shifting to another

Department/Institute/ Centre/Regional Centre through the Head of the later Department to the Assistant Registrar Accounts-II.

(vi) However no carry forward/adjustment of fee shall be allowed in the subsequent session/class/year if the duration of the course is more than one year. No refund of fee shall be allowed after the expiry of the said 15 days' period.

(vii) The fifteen days shall be counted from the date of his/her latest shifting i.e. whichever is later.

III. The shifting of a NRI candidate to General/Reserved category seat is allowed strictly on merit only during the current session/year up to the date of the last counselling. Even if some seat falls vacant after the date of last counselling during the same session/year, it shall not be allowed to fill up. It shall also not be allowed in the next/subsequent session/year under any circumstances even if there may be vacant seats in the department/institute/regional centre under General/Reserved quota seats in the said class/course.

IV. A student who pays tuition fee in advance for the entire course or a term, but is not selected for admission to a class, shall be entitled to a refund of whole fee provided he/she claims the refund within a period of three months from the date fixed for admission.

V. A student who has paid fees in advance for a term and who does not join or withdraws his name after having been admitted to a class, shall not be entitled to the refund of tuition fees for the month/s for which his name remains on the rolls of the class.

VI. If a student is admitted provisionally pending declaration of the lower examination result, the fees for the period his name remains on the rolls of the department/college shall not be refundable. In case he fails in the lower examination, such fees may be adjusted if he decides to continue his studies in the lower class.

*(IV, V, VI Cal. Vol. 2009 at Page No. 581)*

VII. No fee be refunded to the ongoing student/s who left the course in the mid of the course i.e. 2nd semester and thereafter including those who were admitted with late fee/charges in any course in the Teaching Department/Institute and its Regional Centre & later wished to withdraw or left his/her seat in the 'mid of the course'.

*(Vide Syndicate Para 26, dt. 4-1-2014, 16-1-2014)*

VIII. Adjustment of Tuition Fee & other charges in the next semester/session of UIET and University Institute of Legal Studies/Institutes and all other classes.

*(Vide Syndicate Para 51 dt. 29-6-2010)*

- (1) tuition fee be charged semester-wise but other charges be taken annually e.g., Development Fund, Sports Fund, etc. which are not refundable/adjustable;
- (2) if a student was not permitted to attend the class of a semester due to one or the other reason, he/she be not asked to pay the fee for the said semester, if already paid, only rejoining fee/ charges be charged from him/her
- (3) if a student attended any class/es of the semester where he/she has been declared 'detained' at the time of the start of the semester, he/she would be charged again whenever he/she becomes eligible and attends the class again;

#### **Tuition fee will be charged for twelve months in a year (i.e. from July to June)**

The tuition fee etc. for the full academic year will be collected by the University Office, through its SBI Extension Counter in two installments as under on specified dates.

The name of the admitted students will be brought on the rolls of the class on production of receipt of full dues paid otherwise their admission shall be held null and void.

Each student is required to pay tuition and other fees in two installments i.e. one at time of the admission and the 2nd during 10th November to 30th November. Students who are absent, or on leave, on the prescribed dates will arrange to deposit their dues for the 2nd installment through someone. The names of such students who will not deposit 2nd installment of tuition and other fees shall be struck off the rolls of the Department w.e.f. 1st December and shall not be allowed to attend the classes. Their admission forms for the University examinations shall not be forwarded to the University also.

Students whose names have been struck-off for non-payment of dues for the 2nd installment can seek re-admission through the Chairperson of the Department concerned within one month from the date of their names are struck off and they shall be

required to pay their dues along with prescribed fee with the University. They will be allowed to attend the classes only on production of original receipts to the Department.

After the lapse of this period, re-admission would be granted by the D.U.I. only in very hard and genuine cases, within the same academic year and their admission forms for the University examinations shall be forwarded subject to the condition of completion of lectures. In such cases the students shall deposit their fees along with prescribed re-admission fee with the University and obtain clearance slip from the Student Section of the Accounts Branch (Administrative Block) before they are allowed to attend the classes by the Department and their examination forms are forwarded to the University.

- Notes :-**
1. Students partly defaulter for tuition and other fees shall be required to clear their dues by 30th January and obtain clearance certificate from the Student Section of the Accounts Branch in the Administrative Block failing which their Roll Nos. for the University examination shall not be delivered by the Departments.
  2. All kinds of fee concessions are granted by the D.U.I. and as such no adjustment/exemption of fees can be exercised by the students themselves, though eligible for fee concession he/she may be unless he applies for the concessions and the same is granted by the D.U.I. If a student who has not applied for a fee concession and does not pay fee for a term, he/she will not be considered on rolls of the Department.

### **Important Instructions:**

**Students while depositing their fees, should quote Department, Class and Roll Number. Before leaving the Cash Counter, they should check the particulars given on the receipt. The Office shall not be responsible for wrong adjustment of fees if correct and complete particulars are not given in the receipt.**

Students who migrate from any other college to a University Teaching Department shall pay their tuition and other fees, along with the charges and security from the succeeding month in which their migration is sanctioned by the University (in the case of Inter-University Migration, from the month of joining the Department), immediately on migration, after consulting the concerned Assistant Registrar in the University Office. Otherwise they shall not be allowed to attend the classes and their admission shall be held null and void.

### **Fee Concession & Financial Assistance**

1. (a) Scholarship : A large number of scholarships of varying amounts are offered under certain schemes sponsored by the Government of Punjab, Haryana, Union Territory of Chandigarh and Himachal Pradesh, details of which may be had from the offices of the Directors of Education of Punjab, Haryana, Union Territory of Chandigarh and Himachal Pradesh respectively.
- (b) (i) The Dean of University Instruction may grant exemption from payment of University tuition fee up to 10 per cent of the total number of students in a class. If the number of students in a class is less than ten, the D.U.I. may grant full or half fee concession to one student.
- (ii) The fee concessions over and above the full and half fee concessions allowed under Rule 1 shall be as follows :
  - (a) the eldest to pay full fees and the younger to pay half the tuition fees.
- (c) Scheduled Caste students belonging to Punjab, Haryana and Himachal Pradesh will be paid their Scholarships, along with tuition fee and University Examination fee, etc. by their respective Governments provided the students apply for the same through their respective Chairperson of the Department.
  - (a) The SC/ST students be advised to submit Income Certificate (duly attested by Magistrate) at the time of admission, so that benefit of financial assistance given is expedited.
- (d) Some financial aid is also available for deserving students from "Panjab University Students' Aid Society" which is a voluntary organisation.
- (e) (i) Blind students who join a regular degree/Post-graduate degree/self-financial courses at the P.U. would be allowed exemption from payment of tuition fee only for progressive courses and not for parallel courses and rules as applicable to other, students would be applicable to the blind students.
- (ii) The free education, including examination fee, be provided to the completely blind student belonging to below poverty line, as described by the relevant Government notification/s, in any course/self-financing

courses, only for progressive courses and not for parallel courses in the University and its affiliated Colleges, subject to the student being otherwise eligible.

The candidate has to submit an affidavit to this effect by 1<sup>st</sup> class Magistrate. Hostel Fund subsidy may also be provided apart of this. Provision for the free hostel accommodation may also be considered by the Dean of Student Welfare, if required by the student, but he will have to pay the mess and canteen charges regularly i.e. every month, which are already subsidized, failing which the penalty would be imposed, as applicable. A limited number of course books (one per paper) may also be provided, which would be returnable after the completion of the course.

*(Vide Syndicate Para-19 dated 18-5-2014).*

- (f) Free education to children of persons killed in November, 1984 riots and terrorist violence in Punjab State. [Approved vide Syndicate para 5 (Statement A) dated 25-4-1987].
- (g) Exemption in fee for wards of martyrs/permanent disabled (up to 80% leading to incapacitation) of Kargil War who have a valid certificate from the Ministry of Defence to this effect and the same is entered in the Pension Book of the family. (up to academic year 2020-21).

*(Vide Circular No. Misc./A-6/3501-3725 dt. 18-4-2007)*

**Note:** That there shall be no brother-sister tuition fee concession or ANY OTHER fee concession including NRI fee, in respect of the following partially self-supporting courses at the University and its Regional Centres :

- |    |  |  |
|----|--|--|
| 1. | B.A.LL.B. (Hons.) Five-Year Integrated course  | University Institute of Legal Studies, Chandigarh                                  |
| 2. | B.A.LL.B. (Hons.) Five-Year/ Three Year Integrated course                                | Panjab University Regional Centre, Ludhiana  |
| 3. | B.E. Courses   | Panjab University Swami Sarvanand Giri Regional Centre, Hoshiarpur                 |
| 4. | B.E./M.E. Courses  | University Institute of Engineering & Technology, P.U., Chandigarh                 |
| 5. | B.D.S.   | Dr. Harvansh Singh Judge Institute of Dental Sciences & Hospital, P.U., Chandigarh |
| 6. | B.Ed., M.Ed., P.G.D.C.A., M.F.C. USOL and P.G. Diploma in Mass Communication             |  |
| 7. | M.Sc. in System Biology and Informatics, Master in Public Health, M.Sc. Nuclear Medicine | Centre for Emergency Areas in Science & Technology.                                |
| 8. | Any other partially Self-supporting course which may be introduced in future             |  |

*(Vide Syndicate Para 42, dated 27-5-2006).*

**2\*.** From the admissions of 1987-88, employees as well as sons/daughters of University employees studying in the University Teaching Departments/Colleges/enrolled in the University Department of Correspondence Studies be granted tuition-fee concession as under :-

- (i) Employee or one Child .. Full tuition fee concession
- (ii) 2nd and other children, if any .. Half tuition fee concession

**Note-** In case the employee himself is in receipt of full fee concession, then all of his children will be entitled to half fee concession only.

Provided that in the case of such an employee who fails in the examination for which he is permitted or whose conduct is reported unsatisfactory or who does not take proper interest in the office work, the concession to him will be discontinued.

**3.** The sons/daughters of in-service and confirmed employees of the Panjab University be given 50% fee concession in the category of NRI candidates, in all such courses where this concession has already been granted by the Board of Finance/Syndicate/Senate for the sons/daughters of Panjab University employees, with effect from the session 2003-2004. Employment certificate for the purpose be issued by the Head of the Department/Branch concerned for each year of the course.

**In case, during the course of study, the employee retires or leaves the service, the concession would be withdrawn for the subsequent years of the course. However, in the case of employees who die in harness before the age of superannuation, the concession would be available upto the age of superannuation.**

*\*Sr. No. 2 & 3 Cal. Vol. III, 2009 at page No. 576, 577.*

**4.** Minor sisters and minor brothers of a member of the University staff living with him will be eligible for fee concession like sons and daughters of a member of the staff, provided the sister or brother is wholly dependent upon the University employee.

5. The wife of a University employee who is not working but is studying in a University College/Department or has enrolled herself with the Department of Correspondence Studies will be granted fee concession as available to sons/daughters and dependent sisters or brothers of an employee.
6. From the examinations of 1988; the refund of examination fee on passing a University examination be granted to all class-B and C employees only, irrespective of the limit of pay.
7. The dependent sons/daughters of retired University employees shall also be entitled to the fee concession on the same basis as admissible to the dependent sons/daughters of in-service University employees.
8. (i) The fee is granted by Syndicate at its meeting held on 13-12-2010 Vide Para-17 as under:  
**“that 25% tuition fee concession be granted to serving University employees and their wards and also to the wards of retired University Employees studying in self financing courses.**
- (ii) This decision was extended by Senate Vide Para XXIV Dated 4-4-2010 item No. 19(ii) and Syndicate Para 27 dated 15 & 25-4-2013, respectively as under :-  
 (a) “that the concession of 25% tuition fee in self-financing courses be extended to the wards of College teachers of affiliated colleges studying in the University other than NRI category, it be paid out of the College Development Council Fund”.

*(Vide Senate Para XXIV dt. 4-4-2010)*

(b) The above concession has also been extended to the wards of retired teachers of affiliated colleges.

*(Vide Syndicate Para 27 dt. 15& 25-4-2013)*

**Note:** Forms complete in all respects for grant of tuition fee concession on the basis of poverty, brother/sister/daughters/dependents of University Employees Student Aid Fund should reach the University Office by 15th Sept. for all categories of students. The applications for fee concession received after the due date shall not be entertained. The concessions are available only for one year. All such students shall pay full fee till concession are granted by D.U.I. Non-payments of tuition fees at own shall be treated as ‘Struck off.’

#### 9. Guidelines for freeship and tuition fee concession :

- (i) The University may provide five per cent of seats freeship for meritorious students belonging to economically weaker sections of the society in all partially Self-Supporting courses/departments running in Panjab University/ Institutes/Regional Centres of the Panjab University.
- (ii) Freeship would mean (tuition fee+Lab. charges) concession only, not to be claimed by students as a matter of right.
- (iii) At the first instance, the concerned Board of Control/Coordinator shall fill all the sanctioned seats by following the normal admission procedure.
- (iv) The concerned Board of Control/Co-ordinators shall list out the candidates who are eligible for freeship concession.
- (v) For the purpose of the above concession, candidates must have passed the qualifying examination in the first class (60 per cent marks-proof to be added) and the total family income from all sources not exceed Rs. 2.5 lac per year. For proof of family income from all sources should not exceed Rs. 2.5 lac per year, the income certificate shall be accepted when issued by the competent authority which shall mean the Tehsildar, SDM or the employer as the case may be. In addition an affidavit duly attested by a Magistrate, giving full details of total family income should be submitted. Candidates holding yellow cards/yellow ration cards would be given preference over other candidates provided other merit conditions remained the same.
- (vi) For continuation of the freeship granted to students during the first year of admission to a course, the following rider be imposed :  
**“The freeship will be continued in the subsequent years only if the student passes the previous examination with a minimum of 60 percent marks in the aggregate for science students and 55 percent marks for students in departments other than science. The student should have passed the examination in first attempt i.e. should not have a reappear or compartment.” Photocopy of lower examination passed detail marks certificate may enclosed with the refund form.**
- (vii) Those students whom intend to seek the concession must enclose all the relevant documents along with the admission/counseling form so that cases be decided right at the time of admission. They are further required to submit an affidavit along with the admission form that if any document is found to be false or any information found to be concealed their admission will be cancelled.
- (viii) Seats equal to the number of candidates who have been given shall be filled up over and above the sanctioned seats of the concerned course in the same/subsequent counseling following the original merit list of general category.



- (ix) On shifting from one Course to another, a student, if provided tuition fee concession in the previous Course, will be entitled to claim the said concession in the latter course only if the said concession is available in the latter course.

**10. Guidelines for grant of fee concession to the students, whose both parents are not surviving and there is no source of income and those whose father has expired and mother is not able to bear his/her expenditure towards studies.**

*(Vide Syndicate Para 27 dated 29-2-2012).*

Following documents/Information shall be submitted by the student and verified by the Department:

1. Concession be applicable for tuition fee only.
2. Proof of Death be submitted by the candidate.
3. There should be no academic arrears in the year of getting the benefit.
4. 10% of tuition fee plus admissible funds be taken from such students at the time of admission in the 1st year. After confirming the claim of the students, the concerned Chairperson/Director will recommend the refund of 10% tuition fee paid by the student.
5. For subsequent years, no tuition fee be charged from the eligible students those who fulfill the conditions. However fee towards funds shall be paid by the student.
6. Student should not involve in ragging or any other misconduct/violation of University Rules.
7. Student must attain the minimum percentage of attendance as prescribed by the University in the current year i.e. not less than 75%.
8. Family income of student does not exceed Rs. 2,50,000/- p.a.

*Syndicate Para 47 R (xxxvi dated 27.11.2016)*

9. Student must submit evidence in the form of affidavit duly attested by the 1st class Magistrate certifying that:-
  - (i) The income of the surviving mother or guardian is not more than 2,50,000/- per annum including the income accruing from agricultural land or any urban property/shop/business.
  - (ii) Not getting any fellowship/scholarship from any source. If getting any fellowship/scholarship, the student will have to refund the amount of fellowship/scholarship to the University to get the benefit of 100% exemption in tuition fee under this category.

**11. STUDENTS AID FUND :-**

For deserving and needy students, financial assistance is available from Student Aid Fund, maintained by the University.

1. Income certificate from a competent authority which shall mean the Executive Magistrate, Tehsildar or the employer as the case may be is must for availing Student Aid Fund.
2. Those students would be eligible for student aid fund **second time**, if her/she secure at least 50% marks in the previous examination.
3. Half fee will be charged from the Economically Weaker Students (EWS) at the time of admission and financial assistance will be provided to such students.
4. Students covered under Self Finance courses are not entitled for availing Student Aid Fund.

**Slab of Annual Family Income from all sources**

All Teaching Departments- USOL / VVBIS & IS Hoshiarpur	1.	Up to 1,00,000/-	Amount to be disbursed to a student as approved by the Vice-Chancellor on the recommendation of the Committee depending upon the number of applicants and available funds for each academic year.
	2.	1,00,001 to 2,50,000/-	
	3.	2,50,001/- to 4,00,000/-	

The amount of help given to a student under this scheme in an academic year shall be decided by the Syndicate from time to time.

*(Vide Syndicate Para 44 1/15/28/29-05-2016)*

**Note :** That the time period for applying fee concessions by the students be fixed up to 30th November.

**Guidelines for Grant of “Means-Cum-Merit based Tuition fee Support”**

1. A separate budget provision **for Rs. 75 lakh** under the head “Means-cum-Merit based Tuition Fee Support” created for providing tuition fee support as below :-

<b>Family Annual Income</b>	<b>Scholarship to be provided</b>
Less than Rs. 1 lakh	100% of the tuition fee
Between Rs. 1 lakh–Rs. 1.5 lakh	75% of the tuition fee
Between Rs. 1.5 lakh–Rs. 2.5 lakh	50% of the tuition fee
Between Rs. 2.5 lakh–Rs. 3.5 lakh	10% of the tuition fee
Between Rs. 3.5 lakh–Rs. 4.5 lakh	5% of the tuition fee

**2. The terms and conditions of this scheme is recommended as below :-**

- (i) Student must submit Full detail of total family income from all sources including the income accruing from agricultural land or any urban property/shop/business/ maintenance under certificate duly verified by Chairperson/ Director of the respective department
- (ii) A student who claims Tuition Fee support under this scheme shall not be considered for providing financial assistance under any other scheme of the University.
- (iii) The total tuition fee support under this scheme to the students of a particular department shall not exceed 10% of the total budget provision under this head.
- (iv) In case the amount of tuition fee support in reference to total number of applications received in a department exceeds the total limit of Tuition Fee Support as per the above clause, then the total number of applicants shall be reduced proportionately in each slab on the basis of the merit. In such exercise, while rounding the total Tuition Fee Support in each slab, the overall ceiling of the concerned department can exceed the limit of 10% up to maximum of Rs. 20,000/-.
- (v) The scholarship shall be given to the students pursuing regular degree courses only. The diploma or certificate courses shall not be considered.
- (vi) A student must deposit the admission fee and admissible funds at the time of admission.
- (vii) The Tuition Fee Support shall be continued in the subsequent years only if :-**
  - a. The student passes the previous examination with a minimum of 60 percent marks in the aggregate or CGPA 6.3 for Science/Engineering students, whichever is applicable and 55 percent marks for student in departments other than science.
  - b. The student must have passed the Examination in first attempt i.e. should not have a reappear or compartment. "Photocopy of lower examination passed detailed marks certificate may enclose along with application form.
- (viii) Any case not covered under the above scheme can be recommended by D.S.W. and D.U.I. to Vice-Chancellor for providing Tuition Fee Support under the above scheme by recording special reasons and circumstances of the case to justify such support.
- (ix) The application forms under the said scheme be duly recommended by Chairperson/Director of their respective Department must reach in the office of Assistant Registrar Account-II by 30th November.

*(Vide Syndicate Para 23 dated 13/26.09.2014)*

## Scholarships/stipends admissible to the Campus Students out of Special Endowment Trust Funds

S. N.	Departments	Descriptions of Scholarship Name of the Scholarship out of Special Endowment Trust Funds
1.	Anthropology	<b>Prof. (Dr.) S.R.K. Chopra Scholarship:</b> To be awarded to topper in B.Sc. (Hons.) Final @ Rs. 500/- p.m. (for 10 months).
2.	Bio-Chemistry	<b>Dr. Ramji Narain Omvati Scholarship:</b> To be awarded to a final year student of Master on Merit-cum-Need basis @ Rs. 300 p.m. (for 10 months)
3.	Biophysics	<b>Prof. S.R. Bawa Merit Scholarship:</b> The scholarship be based on merit to a student standing first-class first in B.Sc. (Hons.), provided the student is enrolled in M.Sc. (Hons.) @ Rs. 650/- p.m. (for 10 months)
4.	Botany	<b>Guraditta Mal Shiv Ram Fellowship in Bryology:</b> In the discipline of Bryology for 36-42 months for Ph.D. Degree Rs. 500 p.m.(for 36 months)
		<b>Lachmi Durga Scholarship:</b> To a girl student of M.Phil. class in Bryology, @Rs. 300 p.m.(for 10 months)
5.	Chemistry	<b>Prof. B.R. Puri Scholarship:</b> To be awarded to a student standing first in the B.Sc. (Hons.) for pursuing studies in M.Sc. (Hons.) (Physical Chemistry) @ Rs. 300 p.m.(for 10 months)
		<b>(a) Late Sh. Sampuran Mahant Memorial Scholarship:</b> To be awarded to a student of M.Sc. (Hons.) final year on the basis of his/her merit in the M.Sc. (Hons.) Ist year examination @Rs. 700/- p.m. (for 10 months)
		<b>(b) Late Smt. Lila Mahant Memorial Scholarship:</b> To be awarded to a student of B.Sc.(Hons.) final year on the basis of his/her combined merit of 1st and 2nd year B.Sc. (Hons.) @ Rs. 500/- p.m.(for 10 months)
		<b>Durga Devi Ram Dass Merit Scholarships:</b> For students of B.Sc. (Hons.) @Rs. 600 p.m.(for 10 months) (each)
		<b>Prof. D.V.S. Jain Merit Scholarship:</b> To a student of M.Sc. Part II (Hons.) @Rs. 400 p.m.(for 10 months)
6.	Chemistry & UIET	<b>Smt. Somwati and Sh. Thakur Das Farwaha Memorial Scholarships:</b> (i) For Chemistry : To be awarded to a student who topped in the B.Sc. (Hons.) and admitted in the 1st year of M.Sc. (Hons.) (ii) For UIET : To be awarded to a student who in the order of merit of CET admitted in the UIET in any stream @Rs. 5000/p.a. (each)
7.	Communication Studies	<b>Smt. D.P. Sharma and Smt. Nirmala Sharma Memorial Scholarship:</b> To be awarded especially for Girl student on the basis of Merit-cum-financial needs @Rs. 2500/- p.m. (10 months)
8.	Computer Sci & Applications	<b>Ram Parkash Mehra Memorial Scholarship:</b> For student of Diploma Course on Merit-cum-Need basis @ Rs. 1500 p.a.(fixed).
9.	Economics	<b>Seth Beni Prashad Memorial Scholarship:</b> To be awarded to the best student of M.A. Part II for his/her outstanding performance in Academics on the basis of result of M.A. Part I class @Rs. 2500/- p.a.
10.	Environmental Science	<b>Mons. P. Jeannert Memorial Scholarship:</b> To be awarded to a candidate who topped in M.Sc. first year @ Rs. 1100/- p.m. for 10 months.

11.	Hindi	<b>Prof. I.N. Madan:</b> To M.A. Part II students as Memorial Scholarships (for 10 months) (each) detailed below : (i) One Scholarship to the Department student standing 1st in class i.e M.A. I (Hindi)(ii) One scholarship to a student standing 1st in M.A. I (Hindi) Exam. in the Panjab University. @ Rs. 250/-p.m. each for 10 months
		<b>Kamal Gupta Memorial Scholarship:</b> To a student of M.A., on Merit-cum-Means basis @Rs. 100 p.m. (for 10 months)
		<b>Late Mrs. Pushpa &amp; Sh. G.L. Chojar Memorial Scholarship:</b> To be awarded to a girl student specially belonging to poor family without distinction of caste, creed or religion doing Ph.D and in case Ph.D. student is not available the same be granted to an M.A. Student @ Rs. 500 p.m.(for 10 months)
		<b>Late Dr. Laxmi Narain Sharma Memorial Scholarship:</b> To be awarded to the candidate standing first in the subject of Hindi in the B.A. Exam. and wishing to do M.A. @Rs. 700/- p.m. (for 10 months)
		<b>Late Begum Iqbal Bano Memorial Scholarship:</b> To be awarded to students who stand first in M.A. Ist & IInd. (i) M.A. Ist (i.e. Total score of semester 1st & 2nd Rs. 1,200/- (p.m.) x 10 months = 12,000/- (ii) M.A. IInd (i.e. Total score of semester 1st, 2nd, 3rd & 4th Rs. 2,100/- (p.m.) x 10 months = 21,000/- Total Rs. 33,000/-
12.	Laws	<b>Bishan Chand Mahajan Scholarship:</b> To a student on Poverty-cum- Merit basis on the recommendation of the Chairperson @ Rs.150 p.m. (for 10 months)
		<b>Dr. J.N. Kaushal Scholarship:</b> To be awarded to a student of LL.B. 1st Sem. on the basis of merit of Entrance Test conducted by the University @ Rs. 1000 p.m.(for 10 months)
		<b>Mr. Justice R.P. Khosla Mem. Scholarship:</b> To a needy and deserving student of LL.M. 1st year for the duration of the Course in the Rs. 1000 p.m.(for 10 months)
		<b>Tikka Jagjit Singh Bedi Mem. Scholarships:</b> To the needy students @Rs. 500 p.m. (each) (for 10 months)
		<b>Sh. H.L. Sarin Memorial Essay &amp; Moot Competition:</b> To students who win All India Essay competition on Rent Law.@ Ist prize Rs. 2000/- IInd prize Rs. 1500/- IIIrd prize Rs. 1000/-
		<b>Late Sh. Ajit Singh Sarhadi Memorial Scholarships:</b> Two students, one from second year and one from final year of LL.B. @Rs. 8000/- p.a. each
		<b>Rajni Rai-cum-C. Rai Barrister Memorial Scholarship:</b> To be awarded to the needy & deserving Law students of Law Faculty of P.U. either to LL.B. students or LL.M. students @ Rs. 400/- p.m. (for 10 months)
		<b>Justice Teja singh Memorial Scholarship:</b> To be awarded to the student who has been admitted to LL.M 1st semester on need-cum-merit basis @ 50,000/-p.a
13.	Library & Inf. Sci	<b>Surinder &amp; Sarika Mahant Library Science Scholarships:</b> (i) To be awarded to the First Year student of M.Lib. & Information Science (Two year integrated course) on the basis of Financial need-cum- merit. (ii) To be awarded to the Second Year student of M.Lib. & Information Science (Two year integrated course) on the basis of Financial need-cum- merit @ Rs. 450/- p.m. (each) (for 10 months)
		<b>Dr. S.R. Ranganathan Scholarship:</b> To a deserving student of the Bachelor @ Rs.100 p.m. (for 10 months).

14.	Mass Communication	<b>Tara Chand Gupta Memorial Scholarship:</b> On Merit-cum-Means basis @Rs. 400 p.m.(for 10 months)
15.	Mathematics	<b>Smt. Balwant Kaur &amp; Sh. Dhanpat Roy Behl Scholarship:</b> To a meritorious and deserving Post-graduate student@ Rs. 1500 p.a.(fixed)
		<b>Prof. Hans Raj Gupta Memorial Scholarship:</b> For a student B.Sc. (Hons) 1st year class on the basis of written and viva- voce test @Rs. 2000 p.a.(fixed)
		<b>Late Prof. V. C. Dumir Scholarship for Mathematics Excellence:</b> To be awarded to the meritorious student of M.Sc. (Hons.) Ist year and would be continued to that student for M.Sc. (Hons.) 2nd year after examining his/her performance@ Rs. 1000/- p.m.(for 10 months)
16.	Medical College 32	<b>Dr. Prabha Chaudhry Memorial Scholarship:</b> To be awarded to a deserving student (Preferably female) of M.B.B.S. course in final M.B.B.S. Part I & II classes on the basis of Merit-cum-means @Rs. 500 p.m. (for 10 months)
		<b>Darshi Gupta Memorial Scholarship:</b> To award lumpsum amount of Rs. 8000/- p.a. to final year medical student in the University of Panjab who is bright & is finding it difficult to complete the course.
		<b>Dharmpal Sarla &amp; Ramesh Bansal Charitable Trust:</b> Two scholarship of Rs. 1000/- p.m. each will be awarded to the economically weak & promising students in the field of Medicine in any affiliated colleges of the Panjab University for the entire duration of course.
		<b>Smt. Sandhya Devi Memorial Scholarship:</b> To be awarded to a girl student who stands first in 1st year of MBBS examination in first attempt amongst all the girls students in Govt. Medical College Sector-32, Chandigarh @ 7000/- p.a.
17.	Medical College-32/PGI	<b>Chanderlekha Sharma Memorial Nursing Scholarship:</b> To be awarded to a student of B.Sc. Nursing 1st year on the basis of merit in the entrance test @ Rs. 400/- p.m. for the duration of entire course.
18.	Philosophy	<b>Late Mrs Saubhagya &amp; Prof. Prem Nath Mem. Sch.:</b> 1. All four Scholarships be awarded to M.A. students2. 'One' Scholarship in the M.A. 1st year be awarded to the student for standing 'first' in the list of admitted students.3. 'Second' Scholarship be awarded to the student of M.A. 1st year who is both needy and meritorious4. 'Third' Scholarship in the M.A. 2nd year be awarded to the student who secured highest marks in the M.A. 1st exam.5. 'Fourth' scholarship be awarded to the student of M.A. 2nd who is both needy and meritorious.6. An amount of each Scholarship would be Rs. 1,000/- p.m. for 10 months.7. Each Scholarship will be recommended by the Academic Committee of the Philosophy Department every year
19.	Physics	<b>Prof. K.N. Lakshminarayan Memorial Scholarship:</b> For a student who secures first division & first position in B.Sc. (Hons.) without having any reappear @Rs. 200 p.m.(for 10 months)
		<b>S. Shiv Charan Singh Scholarship:</b> On Need-cum-Merit basis for a poor student (Hons) @Rs.150 p.m. (for 10 months)
		<b>Wing Commander S.L. Malhotra Scholarship:</b> To a deserving student who joins the M.Sc. (Hons.) on Merit-cum-Means basis@ Rs. 200 p.m.(for 10 months)
		<b>Dr. B.M. Anand and Mrs. Ram Lubhia Anand Scholarships:</b> One to a student admitted in B.Sc. I (Hons.) on the basis of merit and the other to the most needy student of any class of Physics (Hons.) @Rs. 500 p.m. (each) (for 10 months)

		<b>Prof. P.S Gill Memorial Scholarship:</b> Two scholarships @ Rs. 6000/- p.a. each to be awarded to M.Sc.(Hons.)-II Physics/ M.Sc.(Hons.)-II Physics & Electronics students on the basis of their performance in both the semester of M.Sc.(Hons.)-I, Physics/ M.Sc.(Hons.)-I, Physics & Electronics
20.	Sanskrit	<b>Sh. Charu Dev Shastri Endowment Fund:</b> For standing 1st and 2nd in the subject of Sanskrit Stipends in the B.A. and wishing to do M.A.@Rs. 300 p.m. (for 10 months) (each)
		<b>(i) Late Parameshwara Nand &amp; Smt. Gayatri Devi:</b> To be awarded to a student for standing First in M.A. Sanskrit Part I@ Rs. 700/- p.m. (for 10 months)
		<b>(ii) Late Smt. Padma Sharma:</b> To be awarded to a student of for standing 'Second' in M.A. Sanskrit Part I Exam @Rs. 700/- p.m. (for 10 months)
21.	Sanskrit Colleges	<b>Ragunath Chawla Memorial Scholarship:</b> Three scholarships to be awarded to the students of Shastri Part I, II & III class of the institution affiliated/ associated with Panjab University @ Rs. 150/- p.m. each for 10 months.
22.	Sociology	<b>Baba Prithvi Singh Azad Scholarship:</b> One Scholarship of Rs. 300/- p.m for 10 months shall be awarded to a student of M.A. Part II, having obtained the highest marks in M.A. Part I.
23.	UICET	<b>I.I. CH.E. Scholarships:</b> To be awarded to one student of each under-graduate @ Ist year Rs.1000 p.a.,@ IInd year Rs.1100 p.a.,@ IIIrd year Rs.1200 p.a.,@ IVth year Rs.1300 p.a.
		<b>Mai Partap Kaur Scholarship:</b> On Merit-cum-Means basis to a student hailing from rural areas of Punjab State (Preferably) @Rs. 200 p.m. (for 10 months).
		<b>Sh. Rajinder Mohan Kumar Memorial Scholarships:</b> Two scholarship pe paid to the students on Merit-cum-Means basis @Rs. 500 p.m.(for 10 months) (each)
		<b>Amrit Kaur Khurana Memorial Scholarship:</b> For student on Merit-cum-Means basis who is:-i) a needy person pursuing studies in Chem. Engg. for B.E Chemical.ii) seriously interested in education,iii) has passed all the examination in first attempt &iv) has obtained atleast 60% marks in all the examinations @Rs. 150 p.m.(for 10 months)
		<b>Thakur Datta Sharma Dharmarth Scholarships:</b> To be awarded to five students of B.E. 1st year class. Purely on merit, determined on the basis of entrance test. Rs. 100 p.m. (for 10 months) (each)
		<b>Yamuna Devi Tejaswiri Scholarships:</b> To be awarded to Two students of Engg. Degree Course (including Chemical Engg.) students on Merit-cum- Means basis @ Rs. 300 p.m. (each)
		<b>3 Class of 1969 Scholarships &amp; 3 Amrit Kaur Scholarship:</b> Six scholarships be paid two each for under graduate classes of IInd, IIIrd & IVth year(including those with the combined MBA programme) on merit-cum-means basis @ Rs. 2000/-p.m. each for 10 months. The applicant must have cleared all of his/her immediate past semesters Examinations with at least 60% marks. There should be no backlog from the immediate past semesters. The student's family income should be no more than Rs. 3 Lakh per year. The student should be willing to perform at least 10 hours of Volunteer work of his/her choice.

24.	UIET	<b>Shanti Rai Sahni Scholarship:</b> To be awarded to a needy and meritorious student who seek admission in Ist year Electronics and Communication Engg. at P.U. Chandigarh @ Rs. 1000/- p.m. (for 10 months)
		<b>Late Abhishek Sethi Memorial award:</b> To be given to one topper student of securing highest aggregate marks from all the courses @Rs. 30,000/- p.a.
25.	UIET, UIAMS, UBS, UICET	<b>Late Mr. Prithish Berry Scholarship:</b> To be awarded to a student pursuing MBA from UBS, UIAMS, UIET and BE+MBA from UICET and should be physically handicapped fulfilling the criteria as prescribed by Panjab University and should have obtained admission through the quota reserved for physically handicapped students @ 3000/- p.m for 10 months every year.
26.	UIPS	<b>Gill Family Charitable Fund (GFCF):</b> 1) Jaswant Singh Gill Pharma Scholarship (JSGPS) to be awarded to three student each from B.Pharma 1st,2nd,3rd,4th year @ Rs.24000/- per semester2) Jaswant Singh Gill Pharma Research Fellowship (JSGPRF) to be awarded to student enrolled in Ph.D @ Rs.20000/-+Rs.4000(HRA) for 2 years as per MoU.
27.	Mullana School	<b>S.C. Aggarwal Memorial Scholarship:</b> To be awarded to two best passes of High School at Mullana, Distt. Ambala on the basis of Matriculation exam. @ 150/- p.m. each 10 months.
28.	General Scholarship / Stipends	<b>Radha Krishan Prem Kaur Scholarship:</b> To be awarded to the 10 students of B. A. Part-I of P.U. affiliated colleges on the basis of merit-cum-means @ Rs. 150/- p.m. each for 10 months.
		<b>Alfred Woolner Scholarship:</b> To a student of M.Phil./Ph.D., holding the degree of Master of Arts in one of the Indian Languages preferably of the Panjab University @ Rs. 200 p.m. (for two years).
		<b>Late Sh. Pritam Nath and Mrs. Ram Piari Scholarships:</b> To the wards of the University employees studying in the University Departments on the basis of Merit-cum-Means @Rs. 500 p.m.(for 10 months) each
		<b>Sh. Milkhi Ram Sharma Memorial Scholarship:</b> To a student of M.A./M.Sc. resident of Una Distt. Himachal Pradesh on merit basis @Rs. 250 p.m. (for 10 months)
		<b>Dewan Som Nath Stipends:</b> To be awarded to 25 students On Merit-cum-Means basis @ Rs. 400 p.m.(for 10 months) (each)
		<b>P.U. Soldier's Relief Fund Stipends:</b> To be awarded to two candidates, the sons and daughters of members of Defence Services studying in the Panjab University affiliated colleges. Preference will be given to the children of those who are disabled or have been killed in Military operations @ Rs. 400 p.m. (for 10 months) (each)
		<b>Pt. Labhu Ram Sharma Scholarship:</b> To a needy student who have passed his 10+2 exam. from any School/College located in Hoshiarpur Distt. and joined M.Sc. I/II class of any Science Department of Panjab University @ Rs. 500 p.m.(for 10 months)
		<b>Pt. Labhu Ram Sharma and Shanta Sharma Scholarship:</b> To a two needy student who have passed his 10+2 exam. from any School/College located Scholarships in Hoshiarpur Distt. and joined M.Sc. I/II class of any Science Department of Panjab University@ Rs. 500 p.m.(for 10 months)
		<b>Dr. &amp; Mrs. V.S. Puri Scholarship:</b> To a student studying in any Teaching Department on Merit-cum- Means basis. @Rs. 200 p.m. (for 10 months)

		<b>(i) Mrs. Udham Kaur Menon Educational Scholarship</b> To a girl student of B.A./B.Sc. Part-I studying in colleges affiliated to Pb. University, who should be a resident of Nawan Shahar (Pb.) on the basis of Merit-cum-means @ Rs. 800 p.m.(for 10 months)
		<b>(ii) Mrs. Udham Kaur Scholarships</b> Two Scholarships to the girl students Menon Educational (for 10 months) studying in Medical Colleges affiliated to Pb. University Strictly on the basis of Merit-cum-means @ Rs.1000 p.m.(each)
		<b>Late Sh. Hari Ram Luther Memorial Scholarship</b> To be awarded to promising undergraduate mathematics students in his/her B.A. III class @Rs. 9000/- p.a.
		<b>Late (Mrs.) Ved Kaur Luther Memorial Scholarship</b> To be awarded to promising undergraduate Punjabi literature student in his/her B.A. III class @ Rs. 9000/- p.a.
		<b>Late (Mrs.) Vimal Chadha Memorial Scholarship</b> To be awarded to the topper of M.A. previous year examination of the whole of University held every year @ Rs. 500/ - p.m. (for 10 months)
		<b>Sh. Inder Pal Singh Palu Memorial Scholarship</b> To be awarded to the Ward of 'C' class University employees in the department of Chem. Engg. & Tech., Pharmaceutical Sciences and B.Sc. (Hons.) on the basis of merit of Entrance test for admission to first year Course in their departments. In case any Ward of 'C' class University employee is not available the scholarship may be awarded to the Ward of 'B' class University employee failing which Ward of 'A' class University employees @Rs. 600/- p.m. (for 10 months)

#### ENDOWMENT MEDALS

1.	Biophysics	Late Mother Parkash Kunj-MATA GUJRI Gold Medal To be awarded to the student securing highest marks in M.Sc. and pursuing Ph.D. in the medical Biophysics in this institution every year during Panjab University Convocation
2.	Communication Studies	Panjab University Journalists' Society Gold Medal for standing first in the Bachelor of Mass Communication.
3.	Economics	Attar Chand Kapur Silver Medal for standing first in M.A.
4.	Anthropology	Dewan Bahadur Wali Ram Taneja Gold Medal for standing first in M.Sc. Honours Prof. Dr. S.R.K. Chopra, Memorial Gold Medal To be awarded to topper in B.Sc. (Hons.) final
5.	Biochemistry	Dr. Ramji Narain Omvati Gold Medal for standing 1st in B.Sc. (Hons.) Dr. Ramji Narain Omvati Gold Medal for standing 1st in M.Sc. (Hons.)
6.	Biotechnology	Major Harjinder Singh EME World War-II memorial Gold Medal to be awarded every year during the P.U convocation to the student who secures highest marks in M.Sc. (Hons.)
7.	Chemistry	Prof. Prem Singh Silver Medal for standing first in the B.Sc. (Hons.) Surendra Nath Gold Medal to a best all rounder student of B.Sc. (Hons.) Prof. R.C. Paul, Mem. Gold Medal to be awarded to a first class first student of M.Sc. (Hons.)
8.	Economics	Late Sh. Chander Parkash Gold Medal' to the topper of M.A. of Panjab University who secure at least 60% marks (1st year and 2nd year combined).
9.	English	Prof. M.G. Singh Gold Medal for highest marks in linguistics paper related to any group of M.A. final examination, provided the awardee passes the examination in the first or second division in the first attempt.
10.	Hindi	Uttam Devi Medal for the girl candidate standing first in the Prabhakar Examination.



11.	History	<b>Jiwan Mal Malhotra Gold Medal</b> in M.A. examination, on alternate year, to the best candidate on the basis of result of two years. <b>Rajiv Verma I.P.S. Gold Medal</b> for standing first in M.A.
12.	Indian Theatre	<b>Prabhat Memorial Gold Medal</b> to a student for standing first in M.A. examination
13.	Laws	<b>Kartar Singh Chadha Gold Medal</b> for standing first in the LL.B. examination. <b>R.B. Badri Dass Silver Medal</b> for standing first in the LL.B. final Examination. <b>Shri Gurbachan Singh Aggarwal Memorial Gold Plated Silver Medal</b> for standing first in Civil Procedure Code/Company Law in LL.B. class in alternate years. <b>Dr. J.N. Kaushal Gold Medal</b> for standing 1st in the LL.B. Examination as a whole passing at the first attempt and at one and the same sitting. <b>Dr. Paras Diwan Memorial Medal</b> to the topper of the LL.B. Course. <b>Dr. Kirpal Singh Gold Medal</b> to a student standing first in LL.M. every year.
14.	Library and Information Science	<b>Dr. Jagdish Saran Sharma Memorial Gold Medal</b> for standing first in the Master <b>Sarika and Surinder Mahant Gold Medal</b> to the student receiving First class first in M.Lib. & Information Science (Two year integrated Course) examination.
15.	Mathematics	<b>Prof. Hans Raj Gupta memorial two silver medals</b> to the best graduate students of M.Sc. (Hons.) and M.Sc. 2 year course. <b>Pt. Hem Raj Memorial Medal</b> for standing first in the Final B.Sc. (Hons.) Examination
16.	Music	<b>Pt. Tejpal Singh Bandhu Gold Medal:</b> to be awarded to the topper of M.A. Vocal Examination.
17.	Physics	<b>Sh. &amp; Smt. Khushi Ram Kahol Memorial Gold Medals:</b> one for the student who passes through M.Sc. successfully in the first attempt and obtains highest marks in Solid State Physics course offered in M.Sc. II . and another medal to the student who gets the 1st position in first attempt on completion of the M.Sc. programme. <b>Late Grandfather Sardar Sher Singh Satauria- DASHMESH PITA Gold Medal:</b> for securing highest marks in M.Sc. (Medical Physics) and pursuing Ph.D. in the Medical Physics/Genetics Studies.
18.	Political Science	<b>P. Sundarayya Gold Medal:</b> for M.A. final Political Science examination, offering the optional paper of Marxism at any level. <b>Late Prof. Iqbal Nath Chaudhary Memorial Gold Medal:</b> to a student standing first in M.A. (Political Science) Annual System. <b>Late Sh. J.C. Anand Gold Medal:</b> to the topper of the M.A. 1 <sup>st</sup> year (Semester system) in Western Political thought paper (I & II) every year. <b>Late Principal P. L. Anand Memorial Gold Medal:</b> to a student standing first in M.A. (Semester System).
19.	Sanskrit	<b>S.J. Jindal Trust Gold Medals:</b> for standing first in Prajna, Visharad, Shastri and Acharya. <b>S.J. Jindal Trust Silver Medals:</b> for standing second in Prajna, Visharad, Shastri and Acharya. <b>Smt. Raj Suri Gold Medal:</b> for passing M.A. and obtaining highest marks amongst the students who have studied Group (A) Veda (Paper III) Vedic Samhitas (Paper IV) Brahmina & Vedanga in M.A. final year.
20.	UICET	<b>Arun Modi Gold Medal:</b> for standing first in the Final Chemical Engineering Examination. <b>Prof. I.S. Gupta Gold Medal:</b> for Chem. Engg. & Tech. student for securing highest marks in Technology paper III of both V & VI semesters (All combined) of B.Chem. Engg. Examination. <b>Om Gupta Gold Medal:</b> for standing first in B.E. (Chemical Engg.) final examination.

21.	UIPS	<b>Punshi Narain Devi Vidyawati Charitable Trust Gold Medal:</b> to a student who obtains the highest marks in Industrial Pharmacy paper of B.Pharmacy examination.
		Mrs. Gian Harkishan Singh Pharmacy Medal to a girl student securing the top marks/grades, the aggregate of all the University examinations passed in first attempt during her studies leading to B.Pharmacy degree of the University.
22.	Dr. Harvansh Singh Judge Institute of Dental College	<b>Dr. Harvansh Singh Judge Institute of Dental Sciences and Hospital Award of Medals:</b> To be awarded to three final year students on graduation who could not get the Gold Medal with the following conditions: a) Performance and behavior is certified to be satisfactory by the principal of the institute. b) Candidate is among the top 10% in the final year results. c) Candidate must have minimum 90% attendance in each of the four year of BDS course d) Candidate must have passed all the examinations during the 4 years of the BDS course in Dentistry in first attempts.
23.	Botany	<b>K.K. Nanda Gold Medal:</b> for Ph.D. Research in Plant Sciences.
24.	General Gold Medals	<b>Smt. Pritam Devi Rampal Memorial Silver Medal:</b> to a girl student standing first in the final B.Sc. (Home Science).
		<b>Sherie Doonga Ji Silver Medals:</b> for standing 1st in M.Sc. (Home Science) combined results of all the disciplines & B.Sc. (Home Science) examination.
		<b>Swami Nirvikaranand Sarswati Gold Medal:</b> to the student who tops the list of candidates in all M.A. Examinations together.
		<b>Gadgil Gold Medal:</b> for obtaining top position in M.A. amongst the Social Sciences (History, Pol.Sc., Economics, Public Administration and Sociology).
		<b>Mohinder Pal Aggarwal Silver Medal:</b> to the poorest candidate amongst the three top position holders in final B.Sc. Examination.
		<b>H.M.T. (Bangalore) Gold Medal:</b> for standing first in Bachelor of Mechanical Engineering Examination.
		<b>H.M.T. (Bangalore) Gold Medal:</b> for standing 1st in Bachelor of Production Engg. examination.
		<b>Dr. Devinder Sarup Singh Memorial Gold Medal:</b> to the student standing 1st in the M.B.B.S. Examination.
		<b>Dr. Surinder Vadhera Memorial Gold Medal:</b> for standing 1st in M.B.B.S. examination.
		<b>Ms. Sudarshan Pal Sidhu Gold Medal:</b> for standing 1st amongst the women candidates for M.Ed. examination.
		<b>Prem Chand Silver Medal:</b> to the best short story writer in Hindi amongst the students of the University Teaching Departments and the affiliated colleges.
		<b>Dr. Prem Nath Chhuttani Gold Medal:</b> to the student who tops in the subject of Medicine in the M.B.B.S. Final Examination of the University.
		<b>Dr. Vidya Prakash Verma Silver Medal:</b> to the best Dental Faculty Student in Surgery.
		<b>Mohinder Pal Aggarwal Gold Medal:</b> to the poorest candidate amongst the three top position holders of final M.B.B.S. Examination.
		<b>Smt. Pritam Devi Rampal Memorial Silver Medal:</b> to a girl student standing first in the final B.Sc. (Home Science).
25.	Prem Chand Short Story Medal	1. <b>A Silver Medal:</b> (out of the interest of Rs.1,100) shall be awarded to best short story writer in Hindi every year.
		2. It shall be named as Prem Chand Kahani Puraskar.
		3. All students who are on the rolls of Teaching Departments of the University and on the rolls of colleges affiliated to the University shall be eligible for contesting the Medal.

		4. Entries shall be submitted in a sealed cover in the manner prescribed below by registered post to the Registrar, Panjab University, Chandigarh by name not before the 14th but not later than the 30th day of August each year. On the outer cover the candidate shall simply write "Prem Chand Medal" and inside it, there shall be two sealed envelopes one marked "Prem Chand Short Story Entry" having in it the story with only the candidate's pseudonym, but no means of identification such as his name, address; University Department/College, Roll No. or the like; the other marked 'Candidate's Identity' having in it his name, Father's name, address, University Department/ College, University Roll No. and the pseudonym adopted by him; in this cover he shall also enclose a certificate from the Head of the Department/College certifying the short story to be the candidate's unaided work.
		5. All contestants shall certify in writing that the short story is written by him/her and it shall be countersigned by the Head of the University Department or by the Principal of the College concerned.
		6. The Head of the Hindi Department shall suggest panel of five names out of which the Vice-Chancellor shall select two to act as judges for evaluating the best short-story for the year.
		7. The decision of the judges shall be final.
		8. The medal shall be awarded at the annual Convocation of the University.
		9. The copyright of the story accepted for Medal shall rest with the University, which may publish it.
		10. No one shall be eligible for the award of the medal for more than once.
26.	Gold Medal for Dr. Hazari Prasad Dwivedi Essay Contest on Emotional Integration of the Country.	1. In order to promote literature for the Emotional Integration of the country an essay contest in the medium of English, Hindi and Punjabi shall be held annually. The contest shall be open to all bona-fide students of the University, reading in Degree and Post-graduate classes in the University Teaching Departments and colleges affiliated to the University.
		2. A gold medal shall be awarded for the essay adjudged best and shall be presented at the University Convocation.
		3. An essay not exceeding 6000 words neatly typed or handwritten shall be submitted in duplicate for the contest.
		4. Entries shall be submitted in a sealed cover in the manner prescribed below by registered post to the Registrar, Panjab University, Chandigarh, by name, not before the 14th but not later than the 30th September, each year. On the outer cover the candidate shall simply write "Dr. H.P. Dwivedi Essay Medal" and inside it there shall be two sealed envelopes : one marked 'Dr. H.P. Dwivedi Essay Entry' containing the candidate's essay with the candidate's pseudonym, but no indication such as his name, address, University Roll Number or the like; and the other marked 'Candidate's Identity' containing his name, Father's name, address, University Department/College, University Roll Number and the pseudonym adopted by him. In this cover he shall also enclose a certificate from the Head of the Department/College to the effect that the essay is the candidate's original work.
		5. The University shall appoint a Committee of 3 Judges to assess the essay in English, Hindi and Punjabi, whose judgement shall be final.
		6. Should the Judge consider it necessary, that may, at their discretion, ask the competitors to appear for a Viva Voce or Written test before giving their final award.
		7. As essay submitted for the contest shall become the property of the University and may be published by the University.
		8. No one shall be eligible for award of the essay medal more than once.

27.	General Gold Medals	<b>Dr. Prabha Chaudhary Memorial Gold Medal:</b> To be awarded to a student for standing first in the subject of obstetrics & Gynaecology in the final Professional MBBS Part II Examination.
		<b>Late Smt. Ram Prakash Gupta Memorial Gold Medal:</b> To be awarded who (i) Has obtained at least first division in M.A. I & II as a whole. (ii) Stood first in M.A. I as a whole. (iii) Passed all the papers of both M.A. I & II in the first attempt.
		<b>Late Smt. Khajani Devi Gold Medal:</b> To be given every year to the student who secure maximum marks in the subject of Anatomy in first Professional MBBS exam. in the first attempt.
		<b>Institute of Chartered Accountants of India Gold Medal:</b> To be awarded to a student securing first rank in B.Com. (Hons.) examination or B.Com. (Pass) examination.
		<b>Late Sh. M.L. Tondon Gold Medal:</b> To be awarded to the topper of the M.Com. (Hons.) programme every year.
		<b>President of India Dr. Shankar Dayal Sharma Gold Medal:</b> To be awarded to a student adjudged best of general proficiency including character, conduct & excellence in academic performance extra curricular activities & social services.
		<b>Hari Ram Arora and Bhajan Kaur Arora Medals:</b> To be awarded for Best Paper Awards in the Science Subjects for young researchers (Students, Post-docs, Faculty).

- Scheme of Post Matric Scholarship for OBC Students by the Govt of India/State Govt/U.T. Admn. Studies in India.  
Those candidates belonging to OBCs so specified in relation to the State/Union Territory to which the applicant actually belongs, i.e. is permanently settled, who have passed the Matriculation or higher secondary or any higher examination of a recognized university or Board of Secondary Education and who belong to a family having income not exceeding Rs. 1 lac per annum are eligible.
- (i) Scheme of Post Matric Scholarship for student belonging to Minority Communities for Studies in India.  
Scholarship will be awarded to the students who have secured not less than 50% marks or equivalent grade. In the previous final examination and the annual income of whose parents/guardian from all sources does not exceed Rs. 2.50 lakh.  
(ii) Only Scheme of Merit cum Means based Scholarship for students belonging to Minority Community i.e. [www.momascholarship.gov.in](http://www.momascholarship.gov.in).
- Financial Assistance to students for SC/ST categories under the budget head improvement of education, Sub head for providing Subsidy/Grant/Assistance i.e. Rs. 10 lac. The income criteria for grant of Financial Assistance to SC/ST student of the teaching departments is Rs. 2.50 lac. (Income limit Rs. 2.50 lac) & other formalities like Post-Matric Scholarship.
- The following scholarships are to be given to students belonging to Scheduled Caste and special grants to girls belonging to Scheduled Castes.  
The girls belonging to the Scheduled caste whose parents income does not exceed Rs. 60,965/- shall be given an extra benefit of Rs. 50/- per month and Rs. 60/- per month at post graduate level.

**(i) Post-Matric Scholarship Scheme of the Govt. of Punjab**

Those students belonging to the Scheduled Castes whose parents/guardian are the permanent residents of Punjab State and are studying in any recognised college in any part of India are entitled for scholarship, provided that the yearly income of their parents/guardian from all sources should not exceed Rs. 2,50,000 & tuition fee & other non-refundable charges be not taken from the SC/ST students belonging to Punjab State at the time of admission for various courses other than self financing courses of the Panjab University and its Regional Centres from the Session 2009-2010.

**(ii) Post-Matric Scholarship Scheme of the Govt. of India**

Only those candidates who belong to Schedules Castes so specified in relation to the State/Union Territory to which the applicant actually belongs i.e. permanently settled and who have passed the Matriculation or Higher Secondary or any examination of a recognized University or Board of Secondary Education will be eligible.

**For details–Visit [www.dpipunjab.org](http://www.dpipunjab.org) / [www.chd.education.gov.in](http://www.chd.education.gov.in)**

**(iii) Freeships under State S.C. Welfare Scheme**

The Govt. Colleges should not charge fee from students belonging to Scheduled Castes whereas the Private Colleges, Institutions should claim the remaining amount from the Govt. after leaving 2% of total students and this condition of 2% does not apply in case of Technical Colleges.

**(iv) Scholarships to students belonging to Scheduled Tribes**

Scholarships are granted to children to permanent resident of Scheduled Tribes (formerly Criminal Tribes) in the State of Punjab who are studying at the college level, provided that the annual income of the parents/guardian of such students should not exceed Rs. 5000 or land revenue should not be more than Rs. 1000 p.a.

## 5. A New Corpus 'Merit-cum-Means Loan Subsidy Scheme'.

Grant of 'Merit-cum-Means Loan Subsidy Scheme' in self financing courses.

The Syndicate at its meeting held on 30-1-2010 vide Paragraph 27 had approved :-

“that a sum of Rs. one crore be sanctioned out of the interest earned on the fund 'Foundation for Higher Education & Research Account' to constitute a new corpus 'Merit-cum-Means Loan Subsidy Scheme' in self financing courses for providing soft loan to the financially weaker and meritorious students w.e.f. November 2010”.

Accordingly, the benefit is to be extended to the students who fulfill the following conditions:-

**INSTITUTION OF A CORPUS FOR MERITORIOUS AND NEEDY STUDENTS IN THE SELF FINANCING COURSES:**

The education loan subsidy may be given on the basis of merit-cum-mean basis out of the interest earned on the Corpus of Rs. one crore to the students **who have taken education loan from any nationalized bank** for undertaking Graduate/Post-Graduate self financing courses in the University as per following guidelines :-

1. The amount of education loan subsidy shall be Rs. 25,000/- per annum per student for once during the course. **The maximum number of students shall be 50 in a year.** This amount has been recommended on the basis of present return on the Corpus. It shall be reviewed on yearly basis.
2. The income limit to be eligible to qualify for receiving education loan subsidy under this scheme shall be Rs. 1.5 lacs family income per annum. In case of less number of candidates, the income limit may be increased to Rs. 4.80 lacs.
3. The education loan subsidy shall be disbursed at the end of the academic year after the declaration of result to those students who secured 60% marks.
4. This subsidy shall be disbursed on the basis of a certificate from the nationalized bank from where the student has taken education loan. The subsidy would be towards the principle amount of the loan and the amount of subsidy shall be paid to the bank directly.
5. The students claiming subsidy under this scheme should not have taken any other scholarship or assistance from another agency for that course. In this regard an undertaking shall be obtained from the student.

The students who fulfill the conditions and desirous to avail the said loan subsidy may apply for the purpose on the prescribed Proforma. The said application should reach in the office of the Assistant Registrar Account-II, Panjab University, Chandigarh latest by 15<sup>th</sup> Sept. 2016. Incomplete applications will not be entertained/ the applications received after the due date will be rejected.

**CENTRAL PLACEMENT CELL, PANJAB UNIVERSITY, CHANDIGARH  
APPLICATION FORM FOR SCHOLARSHIP – SARBAT DA BHALA CHARITABLE TRUST**

*Please tick the category applied for:*

1. Economically weaker section
2. Differently abled Student
3. Students/families affected by natural disaster
4. A student who has lost his/her father

Affix recent  
passport size  
photo attested  
by Chairperson/  
Director

1. Name of the applicant \_\_\_\_\_
2. Department \_\_\_\_\_ Class \_\_\_\_\_ PUPIN NO. \_\_\_\_\_
3. Mobile No. \_\_\_\_\_ E-mail id \_\_\_\_\_
4. Father’s name with address \_\_\_\_\_  
\_\_\_\_\_
5. Total Family annual income from all sources \_\_\_\_\_  
(Authentic proof to be attached: Income certificate from Employer / Revenue Authorities and Affidavit)
6. Educational Qualifications: University Annual / 1<sup>st</sup>/2<sup>nd</sup> Semester: \_\_\_\_\_  
Examination (Last qualified): Year of Passing \_\_\_\_\_ Roll No. \_\_\_\_\_  
Marks Obtained \_\_\_\_\_ Max. Marks: \_\_\_\_\_ %age of Marks: \_\_\_\_\_
7. Details of the family members:

	Number	Age	Self supporting	Education
Brothers				
Sisters				
Other Dependents				

8. Scholarships/Stipends/Financial Assistance/Fee Concession (if any) being availed (Yes/No) \_\_\_\_\_  
Details \_\_\_\_\_

**CERTIFICATE**

**(to be signed by the student)**

I hereby solemnly declare that the particulars given by me in the application are corrected to the best of my knowledge and belief. I further declare that I will intimate the Department/University, If I am granted any Scholarship/Stipend and Fee Concession after the submission of this application.

**Signature of the applicant with date**

**CERTIFICATE**

**(To be signed by the Chairman/Director of the deptt.)**

Certificate that the particulars filled in by the student have been verified from the admission form of the student and other record of the Department and found correct.

**Signature of the Deptt. Official**

Recommendation of the Chairman/Director of the Department.

**Signature of the Chairman/Director of the Deptt. with official stamp**

### Rules for Condonation of Shortage of Lectures

As per UGC norms 75% of attendance is mandatory. The Departments are to follow the process listed below to ensure that the rules framed for attendance are implemented in letter and spirit:

- i) Cases of those students who have not attended at least 33% lectures/tutorials/practicals etc. shall not be considered for condonation of shortage of lectures at all. This shall not be applicable to the candidates falling under '(C) (b) i'
- ii) Attendance is to be counted from the date of admission in case of the student of first semester/year and for all ongoing classes attendance is to be counted from the date of start of teaching notified by the Dean of University Instruction.
- iii) Every department has to calculate shortage of attendance at 75% of total lectures/ tutorials/practicals etc. delivered/held every month as per the regulations of the course.
- iv) Teachers to submit cumulative attendance, with shortage at 75%, latest by 5<sup>th</sup> of every month to the Chairperson.
- v) The Department to upload the same on the Online Notice Board of the Department latest by 15<sup>th</sup> of every month and send a copy of the same to the office of the DUI for information.
- vi) All cases of shortage of attendance, complete in all respect, must reach the office of the DUI, at least three days before the commencement of end-semester examination.

For calculating total semester-end shortage of attendance, Chairperson has the power to condone only a fixed percentage (or fixed number) of lectures/tutorials /practicals etc. delivered/held as per the regulations of the respective course. This power of condonation of shortage of attendance, as enshrined in the regulations of each course, has to be exercised judiciously for medical reasons, and for participating in cultural/sports/other activities for which detailed procedure has been outlined at '(C) (a) & (C) (b)' or for any other exigency which the student might have faced. Further, the students covered under '(C) (b) (i)' can be given a further credit of an equal number of lectures delivered and tutorials, practical classes etc. held during the period he was away to participate in such an activity subject to the stipulated requirements and the limit of credit under this clause.

In addition, as per the decision of the Senate (12.10.2003, Para XXIII), the Vice Chancellor, on the recommendation of the Board of Control and for the reasons to be recorded, can condone shortage of lectures upto another 10 lectures delivered in various paper (s) to the best advantage of the candidate.

Further, the Syndicate has the power to condone lectures in various paper(s), for the reasons to be recorded, in cases of extreme hardship as outlined at '(D)'.

Further, Departments are to ensure compliance with the requirements of Regulatory Agencies, viz., AICTE/BCI/ DCI/MCI / NCTE/PCI/AERB etc.

#### (A) First ten working days from start of teaching

Ensure that first semester students are monitored for attendance in the first ten working days of start of teaching.

Admission of all such students who fail to attend at least 33% of the total lectures/tutorials/practicals etc. delivered/held in all the papers during the first ten working days from the start of teaching work shall be cancelled by the Board of Control/Joint Admission Cell after following the procedure given below:

- i) By the 12<sup>th</sup> day after the start of classes for a particular course, the names of those students who fail to attend at least 33% of the total lectures / tutorials / practicals etc. shall be put up on the Notice Board and online Notice Board of the Department and also send a copy of the same to the office of the DUI. Within 4 days of the date of such notice, a student who is short of attendance may give in writing the reasons for his absence from the classes.
- ii) If a student does not submit an application in writing within the prescribed time as stated above, or the reasons adduced by the student in his application are not found to be sufficient and justified in the opinion of the Board of Control/Joint Admission Cell, his admission shall be cancelled.
- iii) All the seats thus falling vacant shall be filled strictly in the order of merit from the waiting list or through subsequent counselling before the expiry of the last date fixed for admissions by the University.
- iv) When the admission of the student(s) is cancelled as stated above, the Department shall display on the Notice Board and online Notice Board, the list of the person(s) next in the waiting list and make admissions accordingly.
- v) Approval of cancellation of admission and permission to fill up the cancelled seat(s) to be sought from the DUI.

**Note:** It is obligatory on the part of students to keep in touch with the Department concerned for the possibility of the seats to fall vacant.

**(B) Monitoring of continuous absence from classes**

Every student shall attend his classes on all working days unless he is granted leave of absence by the Head of the Department. If a student remains absent from his classes for a continuous period of seven days without leave, his name shall be struck off the rolls. Provided that he may be allowed re-admission in accordance with the Rules (*PU Calendar Volume I, 2007, Chapter VII (C), p. 151.*). Striking the name off the rolls and re-admission must be got approved from the DUI.

**(C) Condonation of shortage of attendance**

- i) Every department has to calculate shortage of attendance at 75% of total lectures/ tutorials/practicals etc. delivered/held every month as per the regulations of the course.
- ii) Regulations of each course permit condonation of fixed percentage (or fixed number) of lectures by the Chairperson on medical grounds, for participation in cultural/sports/ other activities, and for any other exigency which the student might have faced.
- iii) Departments to process and recommend the cases for condonation of shortage of attendance of only those students who have attended minimum 33% lectures/ tutorials/practicals etc. as per the specific regulations of the course.

The power of the Chairperson to condone a fixed percentage (or a fixed number) of lectures/tutorials/practicals etc. as enshrined in the specific regulations of each course includes condonation for medical reasons, and for participation in cultural/sports/ other activities for which procedure and limit has been outlined at '**(C)** (a) & **(C)** (b)' or any other exigency [except condonation of attendance of extreme hardship cases listed at '**(D)**'] for which the procedure has been outlined below. The cases of extreme hardship on medical grounds will also follow the below-mentioned procedure:

**(a) Medical Reasons:**

- i) A student availing any benefit shall submit the relevant Medical Certificate/ document/evidence in support of his/her claim within 5 working days of joining the Department.
- ii) The Department will forward Medical Certificate for verification to Chief Medical Officer, Bhai Ghanaiya Ji Institute of Health, within 3 working days.
- iii) The Chief Medical Officer will not entertain any request made directly by the student in this regard. Every request has to be sent through the Department.
- iv) The Chief Medical Officer will *verify the authenticity* of the Medical Certificate and send it back to the department with clear-cut observations regarding acceptance or rejection of the Medical Certificate within 5 working days.
- v) The Chairperson shall certify that the candidate neither attended any class nor participated in any cultural/ extracurricular/other activities of the Department/ University during the period for which Medical Certificate has been submitted by the student.
- vi) For late submission of Medical Certificate, a fine of Rs. 100/- per day (with a maximum ceiling of Rs. 2000/-) will be imposed on the student. The student shall be required to attach the receipt of payment of fine along with the Medical Certificate in the concerned department failing which his/her case for seeking condonation of attendance on medical grounds will not be processed.
- vii) In case the Medical Certificate/ document/evidence submitted by the student is found to be forged or fake, the student shall be liable to pay a fine of Rs. 15000/- **and** shall be debarred from appearing in the current semester examination (in case a student has already appeared in the current semester examination, the result of the same shall stand cancelled) **and** the student shall not be allowed admission in the next semester also. The student can seek readmission in the same semester, in which he/she submitted fake/forged certificate, next year.

In case of annual system of examination, apart from a fine of Rs. 15000/, the student shall be debarred from appearing in the year-end examination (in case the student has already appeared in the year-end examination, the result of the same shall stand cancelled) **and** the student shall not be allowed admission in the next year also. The student can seek readmission in the same year, in which he/she submitted fake/forged certificate, after a gap of full one academic session



**Note: The time period mentioned above under i), ii), and iv) shall have an overriding constraint of completing whole of the process of making the Medical Certificate available with the Department, forwarding to and verification of the same by the Chief Medical Officer before the final case of shortage of attendance is sent by the Department to the office of the DUI.**

**(b) Cultural/Sports/Other Activities:**

- i) A student who participates in Inter-University or University or Inter-Collegiate Tournaments or Youth Festivals or National and International Tournaments or similar other activities or NCC, or University educational excursions or N.S.S. or in any activity where a student has been deputed by the University (not by the department) be allowed credit for an equal number of lectures delivered and tutorial, practical classes etc. held during the period he was away to participate in such an activity *provided the student proceeds with prior permission of the head / Chairperson / Principal concerned.*
- ii) For cultural activities of the University or Intra-Department activity conducted by the Department or educational excursions conducted by the Departments/Dean of Student Welfare or any other activity including placements, alumni relations, condonation of attendance will be made by the Board of Control of the concerned Department and in such cases condonation for attendance/ participation in such activities shall not exceed 10% of the total lectures delivered in that semester provided the student participates in such activities with prior permission of the Head/Chairman/ Principal concerned.
- iii) Such cases which are to be sent to the office of the DUI, must bear the Department's number and date on which the request of student was forwarded to the office of DSW for participation in such activities.

**(D) Condonation of shortage of attendance of extreme hardship cases, on the production of documentary evidence, in a semester:**

- i) In case of death of sister, brother, spouse, child, or either parent, number of lectures delivered during the period of absence of the student (maximum up to 10 working days from the date of death) will be condoned.
- ii) In case of inability to attend classes due to natural calamities/riots/law and order problem, number of lectures delivered during the period of absence of the student (maximum up to 5 working days) will be condoned.
- iii) In case of incapacitation caused due to illness/accident of self or family members (parents, sister, brother, spouse or child), number of lectures delivered during the period of absence of the student (maximum up to 5 working days) will be condoned.
- iv) In case of delivery of a child, number of lectures delivered during the period of her absence (maximum up to 30 days) will be condoned.
- v) In case of miscarriage or Medical Termination of Pregnancy (MTP), number of lectures delivered during the period of her absence (maximum up to 15 days) will be condoned.

*(Syndicate Para 22 dated 25.02.2017)*

**I. FACULTY OF ARTS**  
**DEPARTMENT OF ANCIENT INDIAN HISTORY,**  
**CULTURE AND ARCHAEOLOGY**

**ABOUT THE DEPARTMENT**

The Department was established in 1961. Since then it has been actively engaged in both teaching and research. The Department provides practical training to budding archaeologists. The Department has carried out extensive field work through explorations/excavations. The main sites excavated by the Department are Sugh near Jagadhari, Mitathal in Hissar, Mahorana in Sangrur and Pallanpur in Roopnagar. The Department has excellent collection of antiquities in the Museum both for teaching and research. Organizing Seminars and lectures on significant and emerging trends in our discipline is the rich tradition of the Department. The Department is committed to the vision of comprehending past with rationality, objectivity and critical perspective.

**FACULTY**

Designation	Name	Field of Research Specialization
Associate Professor	Renu Thakur (Chairperson)	Ancient Indian History, Culture & Archaeology
Assistant Professor	Paru Bal Sidhu	Ancient Indian History, Culture & Archaeology

**COURSES OFFERED (SEMESTER SYSTEM)**

Course	Seats	Duration	Eligibility*	Admission Criteria
M.A.	46+5 NRI	2 Years	Passed one of the following examinations from a recognized University: Bachelor's Degree obtaining at least 45% marks in the subject of Postgraduate course or 50% marks in aggregate. OR B.A. with (Hons.) in the subject of Postgraduate Course or B.Sc. (Hons.) course. OR Master's Degree examination in any other subject. OR B.A./B.Sc. pass with 45% marks in Philosophy/ Political Science / Art/ Music/ Modern Indian Language / Geography/ Mathematics/History/Sanskrit/Sociology/Public Administration/ Psychology/Botany/Economics/Physics/ Chemistry/ Geology/ Zoology	Based on merit
M.Phil	15	1 Year	See M.Phil/Ph.D Prospectus 2017	
Ph.D	4	3-6 Years	See M.Phil/Ph.D Prospectus 2017	

\*5% Concession is admissible in eligibility marks to SC/ST/BC/PwD Candidates

**TITLE OF SYLLABI** (Detailed syllabi available at <http://puhchd.ac.in/syllabus.php>)

**M.A.**

Semester-I		Semester-II	
Paper-1	History of India from the Earliest Times to 8 <sup>th</sup> Century B.C. (Compulsory)	Paper-1	History of India from C. 8 <sup>th</sup> Century B.C. to 78 A.D. (Compulsory)
Paper-2	History of India from 78 A.D. to 300 A.D. (Compulsory)	Paper-2	History of India from C. 300 A.D. to 1200 A.D. (Compulsory)
Paper-3	History of India from 650 A.D. to 1207 A.D.	Paper-3	History of India from 650 A.D. to 1207 A.D.
Paper-4	South Indian History	Paper-4	South Indian History
Paper-5	History of Indian Religions from the Earliest Times upto 1200 A.D.	Paper-5	History of Indian Religions from the Earliest Times upto 1200 A.D.

Paper-6	Indian Architecture	Paper-6	Indian Architecture
Paper-7	Sculpture	Paper-7	Sculpture
Paper-8	Iconography	Paper-8	Iconography
<b>Semester-III</b>		<b>Semester-IV</b>	
Group A	Archaeology	Group A	Archaeology
Paper-I	Prehistoric Archaeology	Paper-III	Protohistoric Archaeology
Paper-II	Archaeological Methods, Techniques and Early Historic Archaeology	Paper-IV	Techniques of Archaeological Excavation, Recording and Early Historic Archaeology
Group-B	Epigraphy and Numismatics	Group-B	Epigraphy and Numismatics
Paper-I	Paleography & Epigraphy	Paper-III	Palaeography & Epigraphy
Paper-II	Numismatics	Paper-IV	Numismatics
Group-C	Greater India	Group-C	Greater India
Paper-I	Central Asia and China	Paper-III	Central Asia and Tibet
Paper-II	Burma, Thailand and Indonesia	Paper-IV	Champa and Cambodia
Group-D	Social Life and Institutions in Ancient	Group-D	Economic Life and Institutions in Ancient
Paper-I	India	Paper-III	India
Paper-II	Political Ideas and Institutions in Ancient India	Paper-IV	Political Ideas and Institutions in Ancient India
Group-E	History of Literature	Group-E	History of Literature
Paper-I	Pali and Prakrit Literature	Paper-III	Pali and Prakrit Literature
Paper-II	History of Sanskrit Literature	Paper-IV	History of Sanskrit Literature
Group-F	Ancient World	Group-F	Ancient World
Paper-I	Afro-Asian Civilization	Paper-III	Afro-Asian Civilization
Paper-II	Greek Civilization	Paper-IV	Roman Civilization

**Note:** The students may choose any of the four listed papers in each semester of M.A. I and any of the two listed groups in each semester of M.A. II subject to availability, to be notified by the Department at the beginning of each academic session.

**THRUST AREAS:** The main focus of the Department is on the History, Culture and Archaeology with special reference to numismatics, art, architecture and epigraphy. The Department also concentrates on the history, social, political and economic Institutions. The spread of Indian culture in South East Asia, China and Tibet is also one of the thrust areas of the Department.

**PLACEMENTS:** The Placement Cell of the department endeavors to offer placement services to the students.

**ALUMNI RELATIONS:** The department remains in touch with old students by inviting them in get together where they share their experiences.

## CENTRE FOR SOCIAL WORK

### (UNIVERSITY INSTITUTE OF EMERGING AREAS IN SOCIAL SCIENCES)

#### ABOUT THE CENTRE

Social Sciences have moved from pure theoretical accumulation of knowledge towards its application, especially with an aim to minimize human misery and to promote the project of human development by developing appropriate strategies at the grass-roots level. Social Work is one such discipline that has evolved out of such a realization within the realm of social sciences that caters to the socially marginalized, poor, deprived and the disadvantaged groups through the experts trained for this purpose. Imparting training in Social Work has also been necessitated by the growing need for partnerships between the State, Civil society and private voluntary organizations in an effort to bring all sections of society under the ambit of development. The Panjab University started the Master of Social Work (M.S.W.) degree programme (2 years, 4 Semesters) in 2007. It combines education and practice for preparing the postgraduates to work with individuals, families, groups, and communities in a variety of human service settings. The M.S.W. programme intends to instill in its students, a commitment to improve social conditions, address social problems and raise their voice against social injustice. The Centre is housed in the building of Emerging Areas, near Student Centre and behind the Department of Botany, Panjab University, Chandigarh. There is a dress code for the formal functions and field work forms a mandatory part of the programme.

**FACULTY**

Designation	Name	Field of Research Specialization
Professor	Sherry Sabbarwal <b>(Coordinator)</b>	Development Studies, Organizations, Entrepreneurship, Gender, Media, Religion
Assistant Professors	Monica Munjial Singh Gaurav Gaur	Medical and Psychiatric Social Work Youth and Rural Health
Field Supervisor	Prashant Sharma	Field Work

**COURSES OFFERED (SEMESTER SYSTEM)**

Course	Seats	Duration	Eligibility*	Admission Criteria
Master in Social Work	30+4NRI	2 Years	Passed one of the following examinations from a recognized University: A Bachelor's degree obtaining at least 45% marks in Social Work or 50% in aggregate. OR Bachelor's degree in any faculty obtaining at least 50% marks. OR B.A. with (Hons.) in Social Work or B.Sc.(Hons.). OR Master's degree examination in any other subject.	Based on Merit** Academics: 85% Group Discussion: 10% Interview: 5%
Ph.D.	Subject to availability	3-6 Years	See M.Phil/Ph.D.Prospectus 2017	

\*5% Concession is admissible in eligibility marks to SC/ST/BC/PwD Candidates  
\*\* Ten times candidates will be called against total number of seats (category-wise) for Group Discussion and Personal Interview, strictly on the basis of merit of qualifying examination.

**TITLE OF SYLLABI** (Detailed syllabi available at <http://puchd.ac.in/syllabus.php>)

**M.A.**

Semester-I		Semester-II	
CSW 111	Social Work- Concepts and Methods	CSW 123	Social Work Practice
CSW 112	Evolution & Contemporary Ideologies of Social Work	CSW 124	Understanding Communities
FSW 211	Research Methodology	FSW 223	Women, Society and Development
FSW 212	Sociology for Social Work	FSW 224	Development and Social Work
*	Concurrent Field Work Practicum		Concurrent Field Work Practicum
Semester-III (Any Four Subjects)**		Semester-IV (Any Four Subjects)**	
SWP 331	Working with families	SWP 343	Child and Youth Development
SWP 332	Aging and Social Work	SWP 344	Statistics in Social Work
SWP 431	Community Organization and Development	SWP 443	Community Participation in Urban Management
SWP 432	Indian Rural Communities and Change	SWP 444	Poverty, Slums and Urban Development
SWP 531	Social Demography	SWP 543	Persons with Disability and Social Work
SWP 532	Health and Development	SWP 544	Community Health
*	Concurrent Field Work Practicum	*	Concurrent Field Work Practicum

\*\*Optional papers will be offered subject to availability of the faculty

\*Compulsory Field Work Practicum also includes:

- Rural Camp (One Week), • Internship (Four Weeks after 2nd Semester), • Block Placement (Six Weeks after 4<sup>th</sup> Semester)

**THRUST AREAS:** The discipline of Social Work is aimed at catering to the socially marginalized people in need and deprived poor and the disadvantaged groups. It is a Professional course providing inputs towards partnerships between the State, Civil society and the Non-Governmental and Private sectors. This is an effort to bring all sections of society under the ambit of development. The mission is that our students shall be job creators and not only job seekers. The course has a

compulsory component of field work of two days in a week, thus providing an enormous exposure to students about the structure and functioning governmental, non-governmental organizations, institutes and communities in rural, urban and slum set ups.

**PLACEMENTS:** The Placement Cell of the department endeavors to offer placement services to the students.

**ALUMNI RELATIONS:** The department remains in touch with old students by inviting them in get-togethers where they share their experiences.

## **CENTRE FOR POLICE ADMINISTRATION (UNIVERSITY INSTITUTE OF EMERGING AREAS IN SOCIAL SCIENCES)**

### **ABOUT THE CENTRE**

The Course on Police Administration was started in the Centre for Emerging Areas in Social Sciences, Panjab University from the Academic Session 2007-08 and was upgraded to the status of an independent Centre for Police Administration as part of the University Institute of Emerging Areas in Social Sciences (UIEASS) in 2010. The Programmes in Police Administration have been conceived with a view to:

- i. provide quality human resources with relevant knowledge on Police issues;
- ii. fulfill the ever increasing requirements of security agencies;
- iii. undertake research on various aspects of Policing for generating knowledge and suggesting improvements to Police establishments;
- iv. conduct Training Programmes for the Police Personnel to sensitize them about the recent developments and upgrade their skills for improving their productivity; and
- v. act as a bridge between Police and people for improving the image of Police among the citizens.

### **FACULTY**

<b>Designation</b>	<b>Name</b>	<b>Field of Research Specialization</b>
Professor	Anil Monga <b>(Coordinator)</b>	New Public Management; E-Governance; Research Methodology; and Police Administration
Assistant Professors	Akshat Mehta (on leave) Kuldeep Singh	Police Administration; Correctional Administration; Criminology; and Regulatory Governance E- Governance; Police Personnel Administration; Research Methodology; Criminology; Organization Behaviour; and Indian Political Administration.

### **COURSES OFFERED (SEMESTER SYSTEM)**

<b>Course</b>	<b>Seats</b>	<b>Duration</b>	<b>Eligibility*</b>	<b>Admission Criteria</b>
M.A.	30+6NRI+ 10**	2 Years	Passed one of the following examinations from a recognized University: Bachelor's Degree obtaining at least 45% marks in any of the social sciences disciplines OR Bachelor's Degree with 50% marks in any discipline OR M.A. degree examination in any other of the social science disciplines	Based on Aptitude Test Academics: 50% Written Test: 40% Interview: 10% (Minimum Marks to qualify Written Test:50%)
M. Phil.	6+4**	1 Year	See M. Phil. /Ph.D. Prospectus 2017	
Ph. D.	2	3- 6 Years	See M. Phil. /Ph.D. Prospectus 2017	
*5% Concession is admissible in eligibility marks to SC/ST/BC/PwD Candidates **( Reserved for nominated/In-service Police Personnel. If the seats reserved for Nominated/ In- service police personnel remain vacant due to one reason or the other, the same would be converted into General Category as per rules).Nominated /In-Service candidate should be a regular employee of the Police Department/ Paramilitary forces etc. and need not appear in Entrance Test. Applications for 10 reserved seats for nominated /In-service will be invited separately prior to the admission for other 30 seats. Their merit will be calculated on the basis of qualifying examination as per P.U rules.				

**TITLES OF SYLLABI:** Detailed syllabi available at <http://puchd.ac.in/syllabus.php>.

**M.A.**

<b>Semester-I</b>		<b>Semester-II</b> (Opt four out of the following options)	
Paper-1	Police Administration	Paper-1	Correctional Administration
Paper-2	Theory of Public Administration	Paper-2	Criminology
Paper-3	Organization Behaviour and Police Administration	Paper-3	Research Methodology
Paper-4	Police Procedures and Investigation Techniques	Paper-4	Sociology and Police Administration
		Paper-5	Police Psychology
<b>Semester-III</b>		<b>Semester-IV</b> (Opt four out of the following options)	
Paper-1	Law and Police Administration – I	Paper-1	Law and Police Administration
Paper-2	Police Personnel Administration	Paper-2	Forensic Medicine and Police Administration
Paper-3	Forensic Science and Police Administration	Paper-3	International Law and Police Administration
Paper-4	Project Report <b>or Terrorism</b>	Paper-4	Indian Political and Administrative Systems
		Paper-5	Private Security Management

**THRUST AREAS:** Thrust Areas of Teaching and Research of the Centre for Police Administration are Police Administration; Crime in India and its Various Forms; Stress Amongst Police Personnel; Correctional Administration; Juvenile Delinquency; Police Reforms; Traffic Management; Training of Police Personnel; Police- Public Interface; Law and Police Administration; and Forensic Science.

## **CENTRE FOR HUMAN RIGHTS & DUTIES**

### **(UNIVERSITY INSTITUTE OF EMERGING AREAS IN SOCIAL SCIENCES)**

#### **ABOUT THE CENTRE**

The Centre imparts Human Rights education as an independent and integrated social science discipline to develop empathetic vigilant and responsible citizenry. Originating in 2007 purely as a master's degree course it was upgraded into an independent Centre in 2010 with the value addition of Ph.D programme.

The Centre holds the distinction of having successfully organized a number of national and international events. A few of these include Mobility Programme with students from Western Sydney University, Australia; International Conference on Human Rights in collaboration with Oxford Brooks University; Workshop on Counseling in collaboration with University of British Columbia Vancouver, Canada and Asia Pacific Association of Psychology; workshop on Transnational marriage abandonment in collaboration with Lincoln University, U.K. and J.N.U. and Abatabai University, Iran. Within India, the Centre recently collaborated with the National Human Rights Commission (NHRC) to organize Universal Periodical Review of human rights and also organized film festival on Rights of LGBT.

The Centre supplements formal instructional mode with field based exposure visits to grass roots locations. It has successfully organized students' Internship with Human Rights Commission, Nepal; University of Frazer Valley, Canada and International Institute of Human Rights, Strasbourg, France; Nottingham Trent University, NHRC, Punjab State Human Rights Commission, State Information Commission, Punjab; Chandigarh Commission for the Protection of Child Rights and State Legal Service Authority, UT, Chandigarh to name a few.

#### **FACULTY**

<b>Designation</b>	<b>Name</b>	<b>Field of Research Specialization</b>
Professor	Swarnjit Kaur <b>(Coordinator)</b>	Globalization and Human Rights
Assistant Professors	Namita Gupta Upneet Kaur Mangat	Environment & Human Rights Gender & Human Rights

**COURSES OFFERED (SEMESTER SYSTEM)**

Course	Seats	Duration	Eligibility*	Admission Criteria
M.A.	35+4 NRI	2 Years	Passed one of the following examinations from a recognized University: Bachelor's degree obtaining at least 45% marks in the subject of Human Rights & Duties or 50% marks in the aggregate in any of the social science discipline. OR B.A. with (Hons) in Human Rights & Duties. Or B.Sc. (Hons.). OR Master's Degree examination in any other subject. OR Post Graduate Diploma in the subject of Human Rights with 50% Marks. OR B.A. Pass obtaining at least 45% marks in Political Science or Economics or Sociology or Psychology or History or Women's Studies or Police Administration, or Public Administration or Social Work or Gandhian and Peace Studies	Based on Aptitude Test** a. Academics : 50 Marks b. Written Test(WT) : 35 Marks c. Group Discussion(GD): 07 Marks d. Personal Interview(PI): 08 Marks (Qualifying marks in WT,GD,PI = 17.5)
M.Phil	10	1 Year	See M.Phil/Ph.D. Prospectus 2017	
Ph.D	Subject to availability	3-6 Years	See M.Phil/Ph.D. Prospectus 2017	

\*5% Concession is admissible in eligibility marks to SC/ST/BC/PwD Candidates  
\*\*Duration of Written Test: 40 Minutes, Number of MCQs: 50, No negative marking. Medium of exam shall be English. Aptitude for Human Rights will be tested. Candidates have to appear in all the three components of Test conducted by the Centre.

**TITLES OF SYLLABI:** Detailed syllabi available at <http://puchd.ac.in/syllabus.php>.

**M.A.**

Semester I		Semester II	
Paper-1	Historical, Theoretical and Philosophical Perspectives on Human Rights and Duties	Paper-5	Development, Globalization and Human Rights
Paper-2	UN Human Rights System	Paper-6	Women and Human Rights
Paper-3	Human Rights & Duties in India	Paper-7	Environment, Human Rights & Duties
Paper-4	Children and Human Rights	Paper-8	Civil Society and Human Rights Movements in India
Semester-III		Semester-IV	
Paper-9	Science and Technology, Human Rights and Duties	Paper-13	Rights of the Displaced People and their Rehabilitation
Paper-10	Human Rights and Duties for the Aged and the Differently abled	Paper-14	Human Rights and Criminal Justice System
Paper-11	Research Methods	Paper-15	Fieldwork Based Dissertation
Paper-12	opt any one of the following options I (a) – Labour Welfare, Human Rights and Duties I (b) – International Humanitarian and Refugee Laws I (c) – Disadvantaged Sections/Groups and Human	Paper-16	opt any one of the following options II (a) - Minorities, Human Rights and Duties II (b) – Human Rights Advocacy Skills II (c) - Peoples' Right to Self-Determination Rights & Duties

**THRUST AREAS:** Rights based approach to development; participative and inclusive democracy; good governance and human rights cutting across multiple socio cultural and politico economic issues.

**ALUMNI RELATIONS:** The Centre organized Alumni meet on the Foundation Day of Panjab University. In order to strengthen its alumni base, the Centre is also in touch with its Alumni within and outside India. Apart from the positions mentioned above the Alumni of the Centre have made an effective entry into the cine world, Civil Society organizations such as Jan Jagriti and have also been associated Jan Vikas Ahmadabad for undertaking activities for Rehnuma Project for vulnerable groups and Centre for Social Justice Ahmadabad.

**PLACEMENTS:** The students of the Centre have been placed at the United Nations High Commissioner for Refugees (UNHCR), Institute for Development Communication (IDC), Working Group on Human Rights (WGHR), Haryana Civil Services (HCS), Guru Gobind Singh Khalsa College- Mahilpur, Punjab Police and S.O.S. Delhi.

## DEPARTMENT OF DEFENCE AND NATIONAL SECURITY STUDIES

### ABOUT THE DEPARTMENT

Established in 2001, the department offers Master's course in Defence & Strategic Studies including research degree programmes. The admission in Master course is open to all the students from various streams, but subject weightage is given to the applicants who have studied Defence Studies/Military Science at graduation level. The department also offers M.Phil. course in Defence & Strategic Studies to the defence service officers. The course which was offered to serving Defence officers posted at HQ Army Training Command, Shimla and its 29 training establishments has also been extended to serving Defence officers at Higher command Course, Army War College, Mhow after signing a MoU with the University. Additionally, the department runs two One-Year P.G. Diploma Courses i.e. Post Graduate Diploma in Disaster Management & Security and Homeland Security. In pursuant to the academic recommendation of the expert committee set up by MHRD and later UGC expert committee constituted thereafter in 2013, department was adjudged as one of the best departments. The Department./University was recommended for financial assistance besides proposal for up-gradation. The department holds special lectures including Seminars & Conferences to provide additional exposure to the students. The department also has a Defence Studies Society, which organizes various activities including educational trips/tours to defence establishments in the country.

### FACULTY

Designation	Name	Field of Research Specialization
Professor	Rakesh Datta	International/National Security
Assistant Professor	Jaskaran Singh Waraich (Chairperson)	Maritime Security/Area study China/Pakistan

### COURSES OFFERED (SEMESTER SYSTEM)

Course	Seats	Duration	Eligibility*	Admission Criteria
M.A.	34+3 NRI	2 Years	Passed one of the following examinations from a recognized University: Bachelor's degree obtaining at least 45% marks in the subject of Post Graduate course (Defense and Strategic Studies) or 50% marks in the aggregate. OR Bachelor's degree in any stream with 50% marks in the Aggregate. OR B.A. (Hons) in the subject of Post graduate course (Defense and Strategic Studies) OR Masters Degree examination in any other subject.	Based on Merit
	5**		Candidate belonging to the Armed Forces i.e. Army, Navy & Air Force, Central Armed Police Forces (CAPF) after having put in five years of regular service provided they have passed the graduation examination.	
PG Diploma in Disaster Management & Security	34+3NRI	1 Year	Graduation in any discipline with 50% marks OR B.A./B.Sc.(Pass) in full subjects, obtaining at least 45% marks in the elective subjects (Defence Studies) of the Post Graduate course.	Based on Merit
PG Diploma in Homeland Security	10+3NRI +15**	1 Year	Bachelor's degree in any discipline with at least 50 % marks from recognized University OR B.A./B.Sc (Pass) in full subjects, obtaining at least 45% marks in the elective subjects (Defence Studies) OR any examination of another University recognized by the Syndicate as equivalent thereto	Based on Merit
M.Phil	5	1 Year	See M.Phil/Ph.D Prospectus 2017	
Ph.D.	3	3-6 Years	See M.Phil/Ph.D Prospectus 2017	
*5% Concession is admissible in eligibility marks to SC/ST/BC/PwD Candidates				
** Seeds reserved for serving defence persons.				

**TITLE OF THE SYLLABI** (Detailed course curriculum is available at (<http://puchd.ac.in/syllabus.php?qstrfacid=1>))



**M.A.**

<b>Semester-I</b>		<b>Semester-II</b>	
Paper-1	National Security Conceptual Aspect	Paper-1	Defence Aspects of International Relations
Paper-2	Concept and Theories of International Relations	Paper-2	Strategic Aspects of India's Security
Paper-3	Art of War	Paper-3	Modern Strategic Thought
Paper-4	Armed Forces and Society	Paper-4	Research Methodology
<b>Semester-III</b> (Opt any one from optional papers)		<b>Semester-IV</b> (Opt any one from optional papers)	
Paper-1	Science, Technology & National security (compulsory)	Paper-1	Regional Security and Cooperation in South Asia (compulsory)
Paper-2	Area Study China(compulsory)	Paper-2	Defence Economics(compulsory)
Paper-3	Dissertation(compulsory)	Paper-3	Area Study Pakistan(compulsory)
Paper-4	Indian Military History(Optional)	Paper-4	Major Conflicts in post Cold War Era (Optional)
Paper-5	Indian Ocean and India's Maritime Security(Optional)	Paper-5	Non-Traditional Dimensions of India's Security
Paper-6	Major Conflicts during Cold War Era (Optional)	Paper-6	Internal Security Challenges of India
<b>P.G. Diploma in Disaster Management &amp; Security</b>			
<b>Semester-I</b>		<b>Semester-II</b>	
Paper-1	Disaster Management–Conceptual Framework	Paper-1	Disaster Management–Relief and Rehabilitation
Paper-2	Risk Factor, Crisis Management and the Role of NGOs	Paper-2	War and Disaster Management
Paper-3	Disaster Management Structure – Coordination and Response	Paper-3	Dissertation plus Viva-Voce Examination
Paper-4	Project report based on field study + Viva – voce Examination		
<b>P.G. Diploma Course in Homeland Security</b>			
<b>Semester-I</b>		<b>Semester-II</b>	
Paper-1	Concept of Homeland Security	Paper-1	State, terrorism and counter terrorism
Paper-2	Political, Social, Economic & Geographical Aspects of Homeland Security	Paper-2	Human Rights, Legal Framework and Psychological aspect of Homeland Security
Paper-3	Intelligence and Internal Security Mechanism	Paper-3	Case Study/Project Report

**THRUST AREAS:** To create awareness regarding national and international security related issues amongst the students and to carry out research work on various security dimensions.

**PLACEMENTS:** To facilitate placement of the students the syllabus of the subject is so oriented that it prepares them to sit for various competitive examination incl. UGC/NET besides the subject has a lot of scope for teaching in various Universities and Colleges. The department has a placement cell which in its endeavor also keep organizing interaction of students with the experts from various fields for the benefit of their placement. It may be further mentioned that the several students of this department have been placed in the Armed Forces, Para-Military Forces and the various private and public sector undertakings.

**ALUMNI RELATIONS:** The department is in existence for the last sixteen years with rich preserve of the students who have passed out from this department under various courses. The department is in touch with its alumni which includes even the senior serving defence personnel. Most of the students had been attending alumni meet organized by the Alumni Association of the University. It is further intended to hold alumni meet in the department in near future.

## **DEPARTMENT OF ECONOMICS**

### **ABOUT THE DEPARTMENT**

After the partition of the country, the teaching of Economics in this University was centered in Government College, Hoshiarpur under the guidance of Professor K KDewett. The department was shifted to the Chandigarh Campus in 1958 and it continues to be a leading centre of teaching, research and learning of economics in the region and has been awarded UGC Special Assistance Programme DRS-II. The department has had the honour of having produced many well-known economists like Dr. Manmohan Singh (former Prime Minister of India), Late Dr. G.K. Chadha (former President of South Asian University,

New Delhi and former Vice-Chancellor, Jawaharlal Nehru University, New Delhi). Many distinguished economists have served as faculty members in the past. Chair Professorships are vital for maintaining the highest quality faculty as they enrich the academic environment and create opportunities for academic collaboration, thereby attracting the brightest scholars from different parts of the country. In view of this, Panjab University offers following chairs to the distinguished Indian economists:

**Dr. Manmohan Singh** (former Prime Minister of India) who taught in the Department of Economics, has been nominated as Chair Professor of the Jawaharlal Nehru Chair. Prof. Yoginder K Alagh (noted Economist and the Chancellor of the Central University of Gujarat) has been nominated as Chair Professor of Dr. Manmohan Singh Chair.

A number of international students from Iran, Afghanistan, Thailand, etc. have been studying at both undergraduate and Post-graduate levels, which reflects student diversity in the department. The Department has recently signed Memorandum of Understanding (MOU) with the University of Wurzburg, Germany under which student exchange, faculty exchange and collaborative work will be undertaken.

#### FACULTY

Designation	Name	Field of Research Specialization
Prof. Emeritus	H.S.Shergill	Agricultural Economics, Macro Economics
Prof. Re-employed	Gurmail Singh (on leave)	Agricultural Economics, Development Economics, Econometrics, Health Economics
Professors	UpinderSawhney <b>(Chairperson)</b>	Public Policy, Indian Economy
Associate Professor	S.P. Padhi	Industrial Economics, Public Finance
Assistant Professors	InduBala	Macro Economics, Monetary Economics
	Amrita SherGill	Micro Economics, Econometrics
	Smita Sharma	HRD, Development Economics, Public Finance
	Harpreet Singh	Macro Economics, Econometrics, Agricultural Economics
	Nitin Arora	Macro Economics, Quantitative Methods, Indian Economy
	Paramjit Singh	Development Economics, History of Economic Thought
	Meenu	Indian Economy, Quantitative Methods, International Economics

#### COURSES OFFERED (SEMESTER SYSTEM)

Course	Seats	Duration	Eligibility*	Admission Criteria
B.A.(Hons.)	29+4NRI	3 Years	Passed +2 examination under the 10+2+3 system of education with english and mathematics from a recognized Board/University/ Council with at least 60% marks OR any other examination, recognized by the Syndicate as equivalent thereto.Candidates must not be above 20 years of age (22 years in case of SC/ST/BC/PWD)	Based on merit**
M.A.(Hons.)	On-going Course	2 Years	B.A. Hons. in Economics of the Five Year Integrated Programme in Economics from Panjab University, Chandigarh.	
M.A.	80+5NRI	2 Years	Passed one of the following examination from a recognized University: Bachelor's degree obtaining at least 45% marks in Economics or 50% marks in aggregate. OR B.A. with Honours in Economics or B.Sc.(Hons.). OR Master's degree examination in any other subject.	Based on merit***
M.Phil.	15	1 Year	See M.Phil/Ph.D Prospectus 2017	
Ph.D.	5	3-6 Years	See M.Phil/Ph.D Prospectus 2017	

\* 5% Concession is admissible in the eligibility marks to SC/ST/BC/PWD Candidates

The candidate applying for B.A.(Hons) must not be above 20 years of age as on 1<sup>st</sup> August of the year in which admission is sought to the First Semester (22 years in the case of SC/ST/BC/PwD).

\*\* (i) The merit will be calculated on the basis of the marks secured in best five subjects, which must include Mathematics & English. (ii) 2% additional weightage of marks obtained at (i) above will be given to students who have studied economics at +2 level.

\*\*\* (a) Students who have studied economics less than 25% of the aggregate marks at the undergraduate level of Panjab University or any other recognized University will be considered as having studied inadequate economics, therefore, the student will be awarded zero out of 600 marks. (b) Honours weightage would be given only to students who have studied atleast four papers of Economics in Economics Honours in addition to their fulfilling the adequacy condition in Economics as defined in (a) above.

**TITLES OF SYLLABI:** Detailed syllabi available at <http://puchd.ac.in/syllabus.php>.

**B.A. (Hons.)**

	<b>Semester-I (under CBCS)</b>		<b>Semester-II (under CBCS)</b>
C1	Introductory Microeconomics	C 3	Introductory Macroeconomics
C 2	Mathematical Methods for Economics-I	C 4	Mathematical Methods for Economics-II
AECC1	(AECC)-I# (Environment Studies)	AECC2	(AECC)-II# (English Communication)
GE1	Generic Elective (GE) Course-I*	GE3	Generic Elective (GE) Course-III*
GE2	Generic Elective (GE) Course-II*	GE4	Generic Elective (GE) Course-IV*
	<b>Semester-III (under CBCS)</b>		<b>Semester-IV (under CBCS)</b>
C5	Intermediate Microeconomics-I	C8	Intermediate Microeconomics-II
C6	Intermediate Macroeconomics-I	C9	Intermediate Macroeconomics-II
C7	Statistical Methods for Economics	C10	Introductory Econometrics
SEC1	(SEC)-I	SEC2	(SEC)-II
GE5	Generic Elective (GE) Course-V*	GE6	Generic Elective (GE) Course-VI

(Note: # AECC-1&2 are centralized by the University.

\* GE subjects are to be selected by the students from the pool of GE subjects offered by the various Departments of the University ([www.cbcs.puchd.ac.in](http://www.cbcs.puchd.ac.in)).

	<b>Semester-V</b>		<b>Semester-VI</b>
501	Contemporary Issues in Indian Economy –I	601	Contemporary Issues in Indian Economy–II
502	Macro Economics-II	602	Huma Resource Development
503	Economics of Public Finance	603	Basics of Financial Markets
504	International Economics	604	Environmental Economics
505	Optimization Techniques and Game Theory	605	Economic Journalism

**M.A.(Hons.) for on-going course**

	<b>Semester-I</b>		<b>Semester-II</b>
101	Advanced Micro Economic Theory	201	Research Methodology
102	Advanced Macro Economic Theory	202	Econometric Applications-II
103	Econometric Applications-I	203	Advanced Industrial Economics
104	Contemporary Issues in Public Policy	204	Money and Banking
	<b>Semester-III</b>		<b>Semester-IV</b>
No formal teaching would be offered in the department in this semester. However, under the overall supervision of the department, the students would be attached to one or the other Public/Private organization in her/his majoring area so as to get on the job training and work experience. This opportunity would also be used to test the candidate's problem solving abilities as well. Each student would be required to submit a Project Report on the topic/theme as signed by the host organization. The evaluation of the same, however, would be the prerogative of the teacher(s) in-charge of the field.		401	Advanced Development Economics
		402	Advanced Agricultural Economics
		403	International Trade and Trading System
		404	Law and Economics

**M.A.**

	<b>Semester-I</b>		<b>Semester-II</b>
	(All compulsory papers)		(All compulsory papers)
101	Micro Economics-I	201	Micro Economics-II
102	Contemporary Issues in Indian Economy-I	202	Contemporary Issues in Indian Economy-II
103	Quantitative Methods-I	203	Quantitative Methods-II
104	Economics of Public Finance	204	International Economics
	<b>Semester-III</b>		<b>Semester-IV</b>
	(There will be two compulsory papers)		(There will be two compulsory papers )
301	Macro Economics –I	401	Macro Economics-II
302	Economics of Growth and Development-I	402	Economics of Growth & Development-II
303	Any <b>two</b> of the following options:	403	Any <b>two</b> of the following options:
&	(i) Economics of Agriculture-I	&	(i) Economics of Agriculture-II

304	(ii) Economics of Industry-I (iii) Basic Econometrics (iv) Economics of Population OR Economics of Human Resource Development (v) History of Economic Thought	404	(ii) Economics of Industry-II (iii) Mathematical Economics (iv) Economics of Money & Banking OR Economics of Financial Markets & Institutions (v) Advanced Econometrics
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**THRUST AREAS:** Public Policy, Agricultural Economics, Industrial Economics, International Economics, Development Economics and Money and Banking.

**PLACEMENTS:** The Department has a Placement Cell in place. Our students are placed in consultancies, Think Tanks, Research Institutes besides Academics and Civil Services.

**ALUMNI RELATIONS:** Department is running an Alumni Cell.

## DEPARTMENT OF GANDHIAN AND PEACE STUDIES

### ABOUT THE DEPARTMENT

The Department was established in 1965. At present the teaching work is carried out on the premises of the Department of Gandhian and Peace Studies. The library of the Department is housed in the Gandhi Bhawan, so are the research scholars' work tables. The seminars & special lectures are held in the seminar room of the Department & auditorium of the Gandhi Bhawan. The Department started M. Phil Programme in 1978 and M.A. in Gandhian and Peace Studies in 1984-85. The Major activity of the Department besides teaching, is to encourage research on various aspects of Mahatma Gandhi's Life, Philosophy & Work and allied fields. Our courses reflect the inter-disciplinary approach and that is why it attracts a large number of researchers from abroad. Further, a MoU has also been signed between the Panjab University and Fayetteville State University, North Carolina at 1200 Murchison Road, Fayetteville, NC 28301(USA) and in that from January to April on every Tuesday/Thursday, the Department offers a Global Class via online internet through synchronous video/audio tools with active student engagement in the learning process and provision of exchange programme also from both sides of teachers and students.

### FACULTY

Designation	Name	Field of Research Specialization
Professor (Re-employed)	Manohar Lal Sharma	Gandhi's Social, Political and Economic Thought, Non-violence and Peace Studies, Rural Development and Panchayati Raj
Assistant Professors	Manish Sharma	Non-violence, Peace Studies and Conflict Resolution Life, Work and thought of Mahatma Gandhi Research Methodology, Panchayati Raj and Rural Development
	Ashu Pasricha (Chairperson)	Gandhian Thought, Non-violence, Peace Studies and Conflict Resolution, Human Resource Development, Disaster Management, Research Methodology, Rural Development and Panchayati Raj

### COURSES OFFERED (SEMESTER SYSTEM)

Course	Seats	Duration	Eligibility*	Admission Criteria
M.A.	40+4 NRI	2 Years	Passed one of the following examinations from a recognized University: Bachelor's degree in any stream with 50% marks in the aggregate OR Bachelor's degree obtaining 45% marks in the subject of Gandhian Studies or 50% marks in the aggregate. OR B.A. (Hons) in the subject of Gandhian Studies or B.Sc. (Hons.) Course. OR Master's degree examination in any other subject. OR B.A. Pass obtaining at least 45% marks in Gandhian & Peace Studies, History, Political Science, Economics, Philosophy, Psychology, Public Administration, Geography, Sociology, Ancient Indian History-Culture & Archeology, Women Studies, Human Rights & Duties, Defence Studies, Social Work, Police Administration;	Based on Aptitude Test Academics:60%** Aptitude Test: 40%
M. Phil	10	1 Year	See M.Phil/Ph.D Prospectus 2017	
Ph.D	8	3 -6 Years	See M.Phil/Ph.D Prospectus 2017	
* 5% Concession is admissible in eligibility marks to SC/ST/BC/PwD Candidates				
** 10 <sup>th</sup> class : 10%, 10+2 class : 10%, Graduation : 40%				

**TITLES OF SYLLABI:** Detailed Course Curriculum is available at <http://puchd.ac.in/syllabus.php>

### M.A.

Semester-I		Semester-II	
Paper-1	Life and the Making of Gandhi	Paper-1	Gandhi and Freedom Movement
Paper-2	Political Thought of Mahatma Gandhi	Paper-2	Economic Thought of Mahatma Gandhi
Paper-3	Peace Studies	Paper-3	Conflict & Conflict Resolution
Paper-4	A Study of Texts	Paper-4	Social Thought of Mahatma Gandhi
Paper-5	Gandhi in Globalized World	Paper-5	Gandhi And World Peace
Semester-III		Semester-IV	
Paper-1	Research Methodology	Paper-1	Human Security and Disaster Management
Paper-2	Conflict Management and Transformation	Paper-2	Social Work and Social Reforms in India
Paper-3	Legacy of Peace Building : Mohandas Karamchand Gandhi, Martin Luther King(Jr.), Daisaku Ikeda, Abdul Ghaffar Khan, Development	Paper-3	Gandhi, Rural Development & Panchayati Raj in India
Paper-4	Gandhi, Ecology and Sustainable Development	Paper-4	Field Work Project Report
Paper-5	Gandhi and Social Problems	Paper-5	Gandhi, Human Rights and Duties

**THRUST AREAS:** Life and Work of Mahatma Gandhi, Socio-economic and Political Thought of Mahatma Gandhi, Sustainable Development, Peace Studies, Conflict Resolution, Rural Development, Panchayati Raj, Freedom Movement, Human Security, Social Work, International Relations and Organizations, Women's Empowerment and Disaster Management.

## DEPARTMENT OF GEOGRAPHY

### ABOUT THE DEPARTMENT

Established in 1960, the Department has the distinction of running three mutually supportive post-graduate courses in Geography, Remote Sensing & Geographic Information Systems and Disaster Management. It holds eminence as a centre of quality teaching, research and training. Supervision up to the level of Ph.D. is also offered. In recognition of its regular outstanding accomplishments over the years, the Department was conferred the status of Centre of Advanced Study by the University Grant Commission in 2009. It is also the Headquarter of the Association of Population Geographers of India. It publishes a journal, Population Geography, the first and only one on the theme in the country. The Department has a well equipped and updated Library, state-of-the-art Computer, and GIS Lab. It focuses on field work and educational trips. It is in close association with organizations like Survey of India, NRSC Hyderabad, Census of India, ICSSR and a number of State Governments. It organises UGC sponsored National Seminars and Refresher Courses in Geography for College/University Teachers and short term Training Programmes for college and school teachers in Remote Sensing and GIS. Professionalism is a part of overall learning here.

### FACULTY

Designation	Name	Field of Research Specialization
Professor Emeritus Professors	Gopal Krishan	Population Studies, Urban Geography, Administrative Geography
	Smita Bhutani	Population Geography: Women & Sustainability
	Dhian Kaur	Agricultural Geography, Environmental Studies
	Krishna Mohan	Regional Development with Special Focus on Backward Areas, Disaster Management, Remote Sensing & Geographic Information System
	Karanjot Kaur Brar	Environmental Studies, Natural Disaster Studies, Remote Sensing & Geographic Information System, Climate & Sustainability Issues
Associate Professors	Ravinder Kaur <b>(Chairperson)</b>	Regional Development, Urban-Rural Relation, Policy Studies
	Gaurav Kalotra	Population Geography, Remote Sensing & Geographic Information System
	Simrit Kahlon	Urban Geography, Population Geography, Cultural & Environment Geography, Remote Sensing & Geographic Information System
Assistant Professors	Navneet Kaur	Agriculture Geography & Horticulture
	Vishwa Bandhu Singh	Disaster Studies, Climate Change, Mountain Environments & Remote Sensing & Geographic Information System

**COURSES OFFERED (SEMESTER SYSTEM)**

Course	Seats	Duration	Eligibility*	Admission Criteria
M.A.	51+7 NRI	2 Years	Passed one of the following examinations from a recognized University: Bachelor's Degree with at least 50% marks in the aggregate AND passed Geography in the B.A. / B.Sc Examination obtaining at least 45% marks OR Post-Graduate Diploma in Cartography with atleast second division.	Based on PU-CET(PG) Academics : 50% PU-CET(PG): 50%
Masters in Remote Sensing and GIS	25+3NRI+3 (Sponsored by Govt / Institute)	2 Years	Bachelor's/Master's Degree with 50% marks in Geography/Geology/ Geophysics/ Mathematics/ Physics / Botany/ Environment Science/Computer Science/Urban Planning/Regional Planning OR B.Tech. /B.C.A./M.C.A.	Based on PU-CET (PG) Academics : 50%** PU-CET(PG): 50%( Passing marks in Entrance Test 50%) Sponsored candidates by Govt. /Institutes are exempted from Entrance Test
Masters in Disaster Management	25+3NRI+ 3 (Sponsored by Govt/ Institute)	2 Years	Bachelor's Degree with 50% marks from Panjab University or from any other recognized University as equivalent thereto.	Based on PU-CET (PG) Academics : 50% PU-CET(PG) : 50% (Passing marks in Entrance Test : 50%) Sponsored candidates by Govt./ Institutes are exempted from the Entrance Test.
Ph.D.	Subject to availability	3-6 Years	See M. Phil/Ph.D Prospectus 2017	

\*5% Concession is admissible in eligibility marks to SC/ST/BC/PwD Candidates.  
\*\*B.A./B.Sc./M.A./M.Sc. Geography students will be given additional weightage of 15% of the academic score at Bachelor's level.

**TITLE OF SYLLABI:** (Detailed Course Curriculum is available at [www.puchd.ac.in/syllabus.php](http://www.puchd.ac.in/syllabus.php))

**M.A. Geography**

Semester-I		Semester-II	
Paper-1	Geographic Thought	Paper-1	Climatology
Paper-2	Geomorphology	Paper-2	Geography of India (Systematic and Regional)
Paper-3	Cartography (Theory & Practical)	Paper-3	Fundamentals of Remote Sensing (Theory & Practical)
Paper-4	Any one of the following optional courses : (i) Fundamentals of Population Geography (ii) Fundamentals of Agricultural Geography (iii) Political Geography (iv) Geographical Perspectives on Sustainable Development (v) Geography and Ecosystems (vi) Contemporary Issues in Human Geography	Paper-4	IV Any one of the following optional courses : (i) Cultural Geography (ii) Population and Development Planning (iii) Fundamentals of Natural Hazards and Disaster Management (iv) Marketing Geography (v) Geography of Water Resources (vi) Administrative Geography

<b>Semester-III</b>	<b>Semester-IV</b>
Paper-1 Town and Country Planning Paper-2 Research Methodology in Geography Paper-3 Fundamentals of GIS and GPS (Theory & Practical) Paper-4 Any one of the following optional courses : (i) Regional Development and Planning in India (ii) Special Themes in Agricultural Geography (iii) Bio Geography (iv) Social Geography (v) Political Geography of India (vi) Applied Climatology	Paper-1 Regional Planning Paper-2 Field Based Project Report (Practical only) Paper-3 Quantitative Methods in Geography (Theory & Practical) Paper-4 Any one of the following optional courses : (i) Urban Geography (ii) Geography of Food Security (iii) Economic Geography (with special reference to India) (iv) Geography of Rural Settlements (v) Qualitative Research Methods in Human Geography (vi) Climate Change and Earth System
<b>MASTERS IN DISASTER MANAGEMENT</b>	
<b>Semester-I</b> Paper-1 Concepts, Approaches and Theories of Disasters Paper-2 Fundamentals of Disaster Management Paper-3 Natural and Human Induced Disasters Paper-4 Role of Remote Sensing & Geographic Information Systems in Disaster Management	<b>Semester-II</b> Paper-1 Finance and Insurance in Disaster Management Paper-2 Research Methods in Disaster Management Paper-3 Disasters in India Paper-4 Disaster Management Mechanisms in India
<b>Semester-III</b> Paper-1 Legal Aspects of Disaster Management Paper-2 Preparedness and Mitigation Paper-3 Relief, Rehabilitation & Reconstruction Paper-4 Internship	<b>Semester IV</b> Paper-1 Role of International Agencies in Disaster Management Paper-2 Dissertation
<b>MASTERS IN REMOTE SENSING AND GEOGRAPHIC INFORMATION SYSTEM</b>	
<b>Semester-I</b> Paper-1 Fundamentals of Remote Sensing Paper-2 Fundamentals of Photogrammetry Paper-3 Fundamentals of Geographic Information Systems (GIS) Paper-4 Fundamentals of Computer & Computer Programming	<b>Semester-II</b> Paper-1 Cartography Paper-2 Spatial Analysis Paper-3 Image Processing Paper-4 Fundamentals of Global Positioning System (GPS)
<b>Semester-III</b> Paper-1 Remote Sensing and Geographic Information Systems in Geosciences Paper-2 Remote Sensing and Geographic Information Systems in Urban and Regional Planning Paper-3 Research Methodology Paper-4 Internship and Field Report	<b>Semester-IV</b> Paper-1 Project Report

**THRUST AREAS:** Major thrust areas for CAS Phase II include: Population Geography, Settlement Geography, Agricultural Geography, Geography & Ecosystems, Remote Sensing and GIS applications, Regional Development and Disaster Management.

**PLACEMENTS:** The Department runs placement drives for the placement of students in coordination with the University Placement Cell.

**ALUMNI RELATIONS:** The Department intends to organise some interactive sessions with our Alumni.

## DEPARTMENT OF GURU NANAK SIKH STUDIES

### ABOUT THE DEPARTMENT

The Department of Guru Nanak Sikh Studies was initiated 1970 in pursuance of a scheme of the Punjab Government and the University Grants Commission to set up Guru Nanak Chairs at some universities of India in commemoration of the Birth-Quincentenary of Sri Guru Nanak Sahib Ji. The Panjab University was the first to establish such a department for study and research of the various aspects of the life, work and teachings of Guru Nanak, in particular; and of the Sikh religion, history, philosophy, culture and literature and of religious thought in general. The Department has spacious building and quality infrastructure, seminar hall for organizing Conferences, Seminars, Special/Extension Lectures, Workshops and other activities. It has Reference library well equipped with source books on Sikh Studies. Separate section of library has been earmarked for keeping the rare old manuscripts of Guru Granth Sahib.

The Department has a long tradition of holding regularly International/National Seminars, Conferences, workshops and special Lecture series programmes on the key issues of the related study. The Department publishes Refereed Research Journal entitled Punjab Journal of Sikh Studies. Sixty five Research Scholars have been awarded Ph. D Degree. All the Research Scholars are very well settled in high level jobs and most of them are well known personalities in the diverse fields. Six Research Fellows have been awarded with U.G.C Fellowship and one is awarded with Rajiv Gandhi scholarship.

### FACULTY

Designation	Name	Field of Research Specialization
Professor Emeritus	Darshan Singh	Phonology and Sikh Studies
<b>Chairperson</b>	Dean of University Instruction <b>(Additional Charge)</b> Jaspal Kaur Kaang (Academic Incharge)	Business Management and Commerce  Medieval Panjabi Literature, Sikh Studies and Fiction

### COURSES OFFERED (SEMESTER SYSTEM)

Course	Seats	Duration	Eligibility*	Admission Criteria
M.A.(Comparative Studies of Religions)	25	2 Years	Passed one of the following examinations from a recognized University: A Bachelor's degree obtaining at least 45% marks in the subject of Postgraduate course or 50% marks in the aggregate. OR B.A. (Hons) in the subject of Postgraduate course/B.Sc. (Hons. School) Course. OR Master's degree examination in any other subject. OR Passed B.A./B.Sc. with History, Ancient History, Religious Studies, Religious and Sikh Study, Sikh Study, Philosophy, Sociology, Social Work, Modern Indian Languages (Hindi/Urdu/Panjabi/Gurumukhi Script) obtaining at least 45% marks shall also be eligible.	Based on merit
Ph.D.	Subject to availability	3-6 Years	See M.Phil / Ph.D prospectus 2017	

\*5% Concession is admissible in eligibility marks to SC/ST/BC/PwD Candidates

**TITLE OF SYLLABI** (Detailed syllabi available at <http://puhcd.ac.in/syllabus.php>)

### M.A. Comparative Study of Religions

Semester-I		Semester-II	
Paper-1	Study of Religion I (SOR-01)	Paper-5	Study of Religion II(Sor-05)
Paper-2	Schools Of Hindu Religious Philosophy I (SHRP-02)	Paper-6	Hinduism II (HIN-06)
Paper-3	Bhakti Tradition (BT-03)	Paper-7	Buddhism (BUD-07)
Paper-4	Sikh Religion I (SR -04)	Paper-8	Study of Sikh Religion II (SSR-08)



Semester-III		Semester-IV	
Paper-9	Philosophy of Religion-III (POR-09)	Paper-13	Hermeneutics of Religion (HR-13)
Paper-10	Jainism (JAN-10)	Paper-14	Christianity (CHR-14)
Paper-11	Islam & Sufism (INS-11)	Paper-15	Study of Sikh Religion IV (HSR-15)
Paper-12	Study of Sikh Scripture and Literature III (SSL-12)	Paper-16	Religion of Modern India (RMI-16)

**THRUST AREAS:**

- To conduct, guide and organize study and research of various aspects of life, works and teachings of Guru Nanak, study of all Banikars whose Bani has been compiled in Guru Granth Sahib.
- To guide research in the field of Comparative Study of Religion and particularly in Sikh Studies, with special context of Philosophy, Religion, Literature, Language, Performing Arts, Social Sciences, Management, Science or any other area explored related to Sikh Studies
- Special emphasis is laid on the study and research of Medieval Period to till date.
- To explore the research diasporic scope in Sikh studies.
- To produce study and research in the relevant field with multidisciplinary approaches.
- Teaching of Major Religions of India as well as of World Religions.
- To create the Religious harmony and interfaith dialogue among the religions.

**DEPARTMENT OF HISTORY****ABOUT THE DEPARTMENT**

The Department was relocated at Chandigarh in 1951 and offers M.A., M.Phil and Ph.D. Courses. Research opportunities are available in three streams viz. Ancient, Medieval, Modern and contemporary History. The Department has organized National Seminars, Symposia, Conferences, Refresher Courses, Workshops and Special Lectures on important aspects of Indian History from time to time. The Hari Ram Gupta Memorial Lecture is organized annually with a focus on the North Western region. The faculty has been actively engaged in Research Projects funded by UGC, ICHR, National Commission for Women, New Delhi, and has published over 80 books and 500 Monographs/Research Papers. The faculty also delivers extension lectures and remains in contact with the affiliated colleges. Various academic activities are organised by the department in association with Aitihāsiki, a registered society, formed by the former students of the department.

**FACULTY**

Designation	Name	Field of research specialization
Professor Emeritus	Indu Banga	Modern and Medieval Indian History with special focus on Punjab
Professor (Re-employed)	Devi Sirohi	History of America and Modern Indian History, with special reference to Gender Relations and Dalits
Professors	Sukhmani Bal Riar (Chairperson)	Modern Indian History of India with special reference to the National Movement and History of Punjab in the Modern period.
	Veena Sachdeva	Social, Economic and Political History of Medieval India with special focus on Medieval Punjab Study of Sacred Centres and Medieval Indian Monuments
	M. Rajivlochan	Modern and contemporary Indian History
	Reeta Grewal	Social History of Modern India, Urban History, Medieval and Modern Punjab.
Assistant Professors	AnjuSuri	British Paramountcy and Princely States of India, Modern India Including Modern Punjab.
	Priyatosh Sharma	Medieval Indian History
	Jasbir Singh	Modern Punjab, History, Culture and Literature
	Ashish Kumar	Economic & Socio-Cultural History of Ancient India

**COURSES OFFERED (SEMESTER SYSTEM)**

Course	Seats	Duration	Eligibility*	Admission Criteria
M.A.	50+5 NRI	2 Years	Passed one of the following examinations from a recognized University: Bachelor's degree in any faculty with atleast 50% marks in the aggregate. OR B.A/B.Sc. pass in full subjects obtaining atleast 45% marks in the subject of History. OR B.A with Hons. in History. OR Master's degree in another subject/faculty.	Based on PU-CET(PG) Academics : 50% PU-CET(PG)50% Pass percentage of Entrance Test: 35%
M.Phil.	15	1½ Years	See M.Phil/Ph.D Prospectus 2017	
Ph.D.	Ancient :4 Medieval:5 Modern :6	3-6 Years	See M.Phil/Ph.D Prospectus 2017	

\*5% Concession is admissible in eligibility marks to SC/ST/BC/PwD Candidates

**TITLES OF SYLLABI:** Detailed syllabi available at <http://puchd.ac.in/syllabus.php>.

**M.A**

<b>Semester-I</b>		<b>Semester-II</b>	
Paper-1	The Punjab (mid-fifteenth to seventeenth centuries)	Paper-1	Punjab in the Eighteenth Century (Compulsory)
Paper-2	Ancient India: An Overview	Paper-2	Any one of the Following:
Paper-3	Medieval India: Political Processes	Opt. (i)	Agrarian Economy of Ancient India
Paper-4	Modern India: Political Processes	Opt. (ii)	Agrarian Economy of Medieval India
		Opt. (iii)	Agrarian Economy of Modern India
		Opt. (iv)	Industry, Trade & Urbanization in Medieval India
		Opt. (v)	Industry and Trade in Modern India
		Opt. (vi)	Urbanization in Modern India(In abeyance till further orders)
		Paper-3	Any one of the following:
		Opt. (i)	Modern World (Mid 15th - 19th Century)
		Opt. (ii)	China & Japan (1840-1950)
		Opt. (iii)	History of Canada( In abeyance till further orders)
		Opt. (iv)	American Imperialism in the Nineteenth and Twentieth Centuries (In abeyance till further orders)
		Paper-4	Any one of the following:
		Opt. (i)	USA (1820-1973)
		Opt. (ii)	World in the Twentieth Century
<b>Semester-III</b>		<b>Semester-IV</b>	
Paper-1	Punjab in the Nineteenth Century (Compulsory)	Paper-I	Punjab in the Twentieth Century (compulsory)
Paper-2	Any one of the following	Paper-2	Any one of the following
Opt. (i)	Evolution of Ancient Societies	Opt.(i)	History and Historiography
Opt. (ii)	Feudal Society in Western Europe	Opt.(ii)	History and Historical Method
Opt. (iii)	History of Capitalism	Paper-3	Any one of the following
Opt. (iv)	Rise and Growth of Colonialism in India	Opt. (i)	Religious And Social Processes In Ancient India
Opt. (v)	History of Secularism in Modern India ( In abeyance till further orders )	Opt. (ii)	Buddhism in India

Paper -3	Any one of the following	Opt. (iii) Religious Developments in Medieval India
Opt. (i)	Cultural History of Ancient India	Opt. (iv) Islamic Traditions of Medieval India
Opt. (ii)	Sacred Centres in Indian Civilization	Paper -4 Any one of the following
Opt. (iii)	Medieval Indian Art and Monuments.	Opt. (i) Dalit Movements in Modern India
Opt. (iv)	Gender Relations in Modern India	Opt. (ii) Working Class Movements in Modern India
Opt. (v)	Diaspora in Colonial India (In abeyance till further orders)	Opt. (iii) Peasant Movements in Modern India
Opt. (v)	Science, Technology & Medicine in Colonial India (In abeyance till further orders)	Opt. (iv) Socio-Religious Reform Movements in Modern India
Paper -4	Any one of the following	Opt. (v) History of Caste and Caste Politics in Modern India (In abeyance till further orders)
Opt. (i)	Constitutional Development in Modern India, 1773-1947	
Opt. (ii)	National Movement in India 1858-1947	
Opt. (iii)	British Policy and Princely States (In abeyance till further orders)	
Opt. (iv)	Contemporary India 1947-1992	

**THRUST AREA:** Study of the broad North-Western Region in terms of polity, economy, society and culture since the earliest times in a pan Indian, integrated and inter-disciplinary perspective.

**PLACEMENTS:** The students are placed in Academics, Judiciary, Civil Services at the Central and State level particularly in the states of Punjab, Haryana, Himachal and Delhi. Many students work for the media and defence services.

**ALUMNI RELATIONS:** The department has produced a number of academicians holding the positions Vice Chancellors at various Universities, Eminent Judges of High Courts, Session Courts and District Courts, Civil Servants holding the highest position as Secretaries in various departments, Eminent Journalists, Police personels of the rank Director-Generals and SSP and very eminent Art Historians. The Alumni of the Department have been decorated with Padma Vibhushan, Padma Shree and have headed various commissions.

## INSTITUTE OF SOCIAL SCIENCES EDUCATION AND RESEARCH

### ABOUT THE INSTITUTE

University-Institute of Social Sciences Education and Research (ISSER) was established as an innovative five year programme in 2015. This course comprises of a 3 year BA Hons. and 2 year MA, with an exit option after the first three years. The programme provides a multi-disciplinary foundation for an overall perspective on contemporary society at the undergraduate level, with further specialization at the post graduate level, to inculcate a holistic and interdisciplinary orientation towards the social sciences to encourage social analysis and research.

### FACULTY

Designation	Name	Field of Research Specialization
Professor	Reeta Grewal ( <b>Coordinator</b> )	Modern Indian History, History of Punjab Urban History, Social History

### COURSE OFFERED (SEMESTER SYSTEM)

Course	Seats	Duration	Eligibility	Admission Criteria
B.A.(Hons.) (5 Years Integrated Course)	50+5 NRI	3 Years	55% marks in 10+2 of any stream/ Board/Council/ University recognized by PU	Based on Merit 10% weightage shall be given to Social Sciences subjects at 10+2 level.
M.A.	-	2 Years	Candidates who successfully complete B.A. (Hons.) Social Science, at PU-ISSER	
5% Concession is admissible in eligibility marks to SC/ST/BC/PwD Candidates				

**TITLE OF SYLLABI:** Detailed syllabi available at <http://puchd.ac.in/syllabus.php>

**BA (Hons.)**

<b>Semester -I</b>		<b>Semester -II</b>	
1.1 BA	Discipline Specific Core Papers	2.1 BA	Discipline Specific Core Papers
ENG 101	English	ENG 202	English
Geo 101	Introduction to Geography	Eco 201	Economics: Key Concepts and Theories-1
HIS 101	History of India up to 1200 AD	PUB 201	Public Administration : Key Concepts and Theories
POL 101	Political Science: Key Concepts and Theories-1	GEO 202	Geography of India
SOC 101	Sociology: Key Concepts and Theories	HIS 202	History of India 1200-1750 AD
1.2 BA	Choice Based Credit Electives (any Two)	2.2 BA	Choice Based Credit Electives (any Two)
PBI 101	Punjabi	PBI 201	Punjabi
HCP 101	History and Culture of Punjab from the Earliest times to 1849	HCP 202	History and Culture of Punjab 1849-1966
PSY 101	Introduction to Psychology	POL 202	Indian Constitution
GTH 101	Introduction to Gandhian Thought	PHI 201	Introduction to Philosophy
1.3 BA	Skill Enhancement Papers	2.3 BA	Skill Enhancement Papers
CAP 101	Computer Applications	ENG 203	Academic Writing Skills
<b>Semester-III</b>		<b>Semester-IV</b>	
3.1 BA	Discipline Specific Core Papers	4.1 BA	Discipline Specific Core Papers
ENG 303	English	ECO 403	Indian Economy
ECO 302	Economics: Key Concepts and Theories 2	PUB 403	Personnel and Financial Administration
PUB 302	Indian Administration	POL 403	Indian Government and Politics
POL 302	Political Science :Key Concepts and Theories 2	HIS 403	History of India 1750-1947AD
SOC 302	Society in India	SOC 403	Social Change in Modern India
3.2 BA	Choice Based Credit Electives (any Two; ENV Compulsory)	4.2 BA	Choice Based Credit Electives (any Two)
ENV 301	Environment Studies	PSY 402	Elements of Psychology
GNR 301	Introduction to Gender Studies	PHI 402	Indian and Western Ethics
HOA 301	Introduction to History of Art	HRD 401	Introduction to Human Rights and Duties
3.3 BA	Skill Enhancement Papers	PAD 401	Introduction to Police Administration
GEO 303	Basic Cartography	4.3 BA	Skill Enhancement Papers
REM 301	Research Methodology in Social Sciences	STA 401	Basic Statistics
<b>Semester- V</b>		<b>Semester -VI</b>	
5.1 BA	Discipline Specific Core Papers (4 papers of any one discipline)	6.1 BA	Discipline Specific Core Papers (4 papers of same discipline as in Semester V)
GEO 501	Geography of Punjab	GEO 601	Cartography 2
GEO 502	World Regional Geography 1	GEO 602	World Regional Geography 2
GEO 503	Geographic Thought	GEO 603	Introduction to Geospatial Technology
GEO 504	Environmental Geography	GEO 604	Fundamentals of Human Geography
HIS 501	World History 1	HIS 601	World History 2
HIS 502	Economy of Early India	HIS 602	Social and Cultural Trends in Ancient India
HIS 503	Economic History of Medieval India	HIS 603	Socio Cultural History of Medieval India

HIS 504	Economic History of Modern India	HIS 604	Socio Cultural History of India Under Colonial Rule
ECO 501	Economics of Industry	ECO 601	International Economics
ECO 502	Intermediate Micro Economics 1	ECO 601	Intermediate Micro Economics 2
ECO 503	Intermediate Macro Economics 1	ECO 602	Intermediate Macro Economics 2
ECO 504	Development Economics -1	ECO 603	Development Economics 2
PSY 501	Educational Psychology	PSY 601	Life Skills
PSY 502	General Psychology	PSY 602	Counselling Psychology
PSY 503	Experimental Psychology	PSY 603	Industrial Psychology
PSY 504	Psychological Testing	PSY 604	Defence Mechanisms
POL 501	Public Policy in India: An Introduction	POL 601	Geopolitics: Classical and Critical
POL 502	Tradition in Political Thought	POL 602	Politics of Environment & Development
POL 503	Theories of International Relations	POL 603	Contemporary Global Geo Politics
POL 504	Comparative Politics	POL 604	Major Issues in Indian Politics
PUB 501	Local Government in India	PUB 601	Comparative and Development Administration
PUB 502	Citizen Centric Governance	PUB 602	Regulatory Governance
PUB 503	Administrative Law	PUB 603	E-Governance
PUB 504	Public Policy and Governance	PUB 604	Ethics and Governance
SOC 501	Introduction to Rural Society	SOC 601	Introduction to Urban society
SOC 502	Social Thought	SOC 602	Indian Sociological Thinkers
SOC 503	Social Stratification	SOC 603	Sociology of Family and Gender
SOC 504	Social Development	SOC 604	Social Demography
5.2 BA	BA CHOICE BASED CREDIT ELECTIVES (ANY TWO)	6.2 BA	BA CHOICE BASED CREDIT ELECTIVES (ANY TWO)
GEN 502	India's Struggle for Freedom	GEN 605	Prehistoric India
GEN 503	Contemporary India	GEN 606	Introduction to Social work
GEN 504	Economic Issues Today	GEN 607	Climate Change and Sustainable Development
5.3 BA	Skill Enhancement Papers	6.3 BA	Skill Enhancement Papers
RSM 501	Use of Graphs and Diagrams in Social Sciences	RSM 604	Use of Surveys and Interviews in Social Sciences
SEM 501	Interdisciplinary Project	RSM 606	Interdisciplinary Survey Project

**THRUST AREA:** The PU-ISSER intends to inculcate a holistic approach of the social sciences to train students to become reflective and critical thinkers, independent learners and specially equipped in interdisciplinary skills for social analysis and research. The five year social sciences programme will provide additional perspectives to comprehend the significant issues of the region, nation and the world today.

**PLACEMENTS:** The PU-ISSER is a new institute established in 2015. Our first batch will graduate in 2018. We are attempting to organize internships in their areas of interest for work experience leading to placements.

**ALUMNI RELATIONS:** We intend to have an Alumni Association to remain in touch with the students through an E-Newsletter and annual meetings. We would like the alumni to interact with the later batches at PU-ISSER to both motivate and inspire them.

## DEPARTMENT OF LIBRARY AND INFORMATION SCIENCE

### ABOUT THE DEPARTMENT

The Department is one of the pioneer schools of Library & Information Science in the country. The department prepares students through professional degree courses for careers in Librarianship and LIS teaching. It has produced about 59 Doctorates, organized various Refresher courses and seminars in Library & Information Science. It has a rich collection of latest documents in the department library and a computer laboratory. The department's student association namely PULSSA (Panjab University Library Science Students Association) organizes educational tours/field trips on an annual basis. The class rooms of the department are multimedia enabled which makes the teaching and learning more enriching, engaging and encouraging. The Department endeavors to contribute meaningfully in the information-driven knowledge society through innovative educational curricula, rich learning experiences, strong, balanced research programme offered in a positive and diverse learning environment. The department has significant research productivity.

### FACULTY

Designation	Name	Field of Research Specialization
Professor	Preeti Mahajan	ICT applications in Library and Information Centers, Library Management, Reference and Information Services, Social Science Information System, Library Cataloging, Information Storage Retrieval
Associate Professor	Rupak Chakravarty (Chairperson)	Library Technologies, Library Management, Information & Communication, Information Storage & Retrieval, Academic Library System, Webometrics, Health Information Systems
Assistant Professor	Shiv Kumar	Reference and Information Services, Cataloguing (Theory & Practice), Research Methodology and Statistical Techniques Information & Communication

### COURSES OFFERED (SEMESTER SYSTEM)

Course	Seats	Duration	Eligibility*	Admission Criteria
Bachelor of Library & Information Sciences (B.Lib.I.Sc.)	45+5NRI	1 Year	Passed one of the following examinations from a recognized University: Bachelor's degree with at least 50% marks in aggregate. OR Master's degree in any discipline OR any other equivalent qualification recognized by PU/UGC	Based on merit
Master of Library & Information Sciences (M.Lib.I.Sc.)	35+5NRI	1 Year	Bachelor of Library & Information Science (s) degree with 50% marks from a recognized University	Based on merit
Ph.D.	Subject to availability	3-6 Years	See M.Phil/Ph.D Prospectus 2017	

\*5% Concession is admissible in eligibility marks to SC/ST/BC/PwD candidates

**TITLES OF SYLLABI:** Detailed syllabi available at <http://puchd.ac.in/syllabus.php>.

### Bachelor of Library & Information Sciences

Semester -I		Semester-II	
Paper-1	Foundations of Library and Information Science	Paper-1	Management of Library and Information Centers
Paper-2	Knowledge Organization: Classification (Theory)	Paper-2	Knowledge Organization: Classification (Practice)
Paper-3	Knowledge Organization: Cataloguing (Theory)	Paper-3	Knowledge Organization: Cataloguing (Practice)
Paper-4	Information and Communication Technology: Basics	Paper-4	Information Sources and Services (Theory)

**Masters of Library & Information Sciences**

<b>Semester-I</b>		<b>Semester-II</b>	
Paper-1	Information Sources and Services (Practice)	Paper-1	Information and Communication
Paper-2	Information and Communication Technology: Applications (Theory & Practice)	Paper-2	Information Analysis, Consolidation and Repackaging
Paper-3	Information Storage and Retrieval	Paper-3	Information Systems:(Options) A–Social Science Information Sources & Systems B–Business Information Sources and Systems C-Health Science Information Sources and Systems
Paper-4	Research Methods and Statistical Techniques	Paper-4	Management of Library Systems: (Options) A – Public Library System B – Academic Library System C – Special Library System

**THRUST AREA:** RFID (Radio Frequency Identification), Bibliometrics, Scientometrics, Altmetrics & Webometrics, Library 2.0, Reference and Information Sources and Services, E-Resources, Digital Library, Scholarly Communication, Information Literacy, Research support, Researcher Development, Library Assessment and other emerging trends.

**PLACEMENTS:** Department of Library and Information Science collaborates actively with the Central Placement Cell (CPC) of the Panjab University. Students also participate in the soft-skill development courses offered by the CPC. It guides and assists the students regarding career counseling and facilitates training and placement of students in various library & information centers including academic, public and special libraries. Faculty members take keen interest in disseminating job related information to the students. Regular job postings are also done on the department online notice board.

**ALUMNI RELATIONS:** Students of the department continue to be an important part of our academic community long after completing their course. The department strives to foster a sense of belongingness and nurture and strengthen the bond between alumni and the Department in ways that are meaningful and mutually beneficial, provide a forum for the alumni for exchange of ideas on academic, cultural and social events that bring students, faculty, staff and alumni together. The department from time to time invites the distinguished alumni to deliver extension lectures for the benefit of the students. The department through alumni relations strives to generate valuable support and engagement. As a former student of the department they remain a valued member of our community.

**DEPARTMENT OF PHILOSOPHY****ABOUT THE DEPARTMENT**

The Department was established in 1959. The Department provides instructions for M.A. in Philosophy, besides research guidance for a Doctoral Degree and subsidiary courses in Philosophy to the P.U. ISSER Social Sciences students. The Department strives to provide the students an extensive exposure to Western and Indian Philosophical Traditions and an intensive training for analytical skills and reasoning through lectures, tutorials and seminars. An active participation and regular attendance in all these activities is compulsory. The faculty of the Department takes an active interest in interacting with the faculty and students of the allied departments of their academic areas of interest particularly in Humanities and Social Sciences in the Faculties of Arts, Languages, Design & Fine Arts.

**FACULTY**

<b>Designation</b>	<b>Name</b>	<b>Field of Research Specialization</b>
Prof. Emeritus	Dharmendra Goel	Philosophy of History & Culture, Analytical Language.
Prof. Re-employed	V.T. Sebastian	Phenomenology & Existentialism.
	H.P.Sah	Philosophy of Science, Philosophy of Religion.
Professor	Asha Maudgil	Philosophy of Mind, Philosophy of Language, Philosophy of History & Culture, Logic, Philosophy of Science.
Associate Professor	Shivani Sharma	Indian Philosophy, Aesthetics
Assistant Professors	Lallan Singh Baghel <b>(Chairperson)</b> Pankaj Srivastava	Social and Political Philosophy, Philosophy of Mind.  Philosophy of Religion

**COURSES OFFERED (SEMESTER SYSTEM)**

Course	Seats	Duration	Eligibility*	Admission Criteria
M.A.	40 + 4 NRI	2 Years	Passed one of the following examinations from a recognized University: Bachelor's Degree obtaining 45% marks in the subject of Philosophy or 50% marks in Aggregate. OR B.A. (Hons.) in the subject of Philosophy or B.Sc.(Hons.) course. OR Master's Degree examination in any discipline. OR B.A. (Pass) with 45% marks in the subject of Political Science/Economics /Sociology/ Psychology/ Mathematics/Physics.	Based on Merit
M.Phil.	10	1 Year	See M.Phil / Ph.D. Prospectus 2017	
Ph.D		3-6 Years	See M.Phil / Ph.D. Prospectus 2017	
*5% Concession is admissible in eligibility marks to SC/ST/BC/PwD candidates				

**TITLES OF SYLLABI:** Detailed syllabi available at <http://puchd.ac.in/syllabus.php>.

**M.A.**

Semester - I		Semester - II	
Paper-1	Introduction to Philosophical Psychology	Paper-1	Philosophical Psychology (Debates in Philosophical Psychology)
Paper-2	Western Philosophy (History of Greek Philosophy)	Paper-2	Western Philosophy (Modern Western Philosophy)
Paper-3	Classical Indian Philosophy (Indian Metaphysics)	Paper-3	Classical Indian Philosophy (Indian Epistemology)
Paper-4	Logic (Part - I)	Paper-4	Logic (Part - II)
Semester - III		Semester - IV	
	Compulsory		Compulsory
Paper-1	20 <sup>th</sup> Century Western Philosophy (Philosophy of Language)	Paper-1	20 <sup>th</sup> Century Western Philosophy (Existentialism, Phenomenology & Hermeneutics)
Paper-2	Ethics (Concepts and Theories in Ethics) Optional (any Two)	Paper-2	Ethics (Applied Moral Philosophy) Optional (any Two)
Paper-3	Social and Political Philosophy (Concepts and Theories in Social and Political Philosophy)	Paper-3	Social and Political Philosophy (Major Theories in Social and Political Philosophy)
Paper-4	Philosophy of Religion (Part - I)	Paper-4	Philosophy of Religion (Part- II)
Paper-5	Aesthetics : Indian & Language Western (Part-I)	Paper-5	Aesthetics : Indian & Western (Part -II)
Paper-6	Philosophy of History & Culture (Philosophy of History)	Paper-6	Philosophy of History & Culture (Philosophy of Culture of Modern Indian Thoughts)
Paper-7	Philosophy of Science	Paper-7	Philosophy of Science

**THRUST AREAS:** Indian Philosophy, Ethics, Aesthetics, Social and Political Philosophy.

**PLACEMENTS:** The notice board of the Department displays subject related job & internship opportunities in different national & international research organizations. A designated faculty member in-charge of placements also provides career counselling to students.

**ALUMNI RELATIONS:** From time to time, our department organizes symposium, seminars and invited talks - cum - workshops where our alumni participate in philosophical and interactive activities.



## DEPARTMENT OF POLITICAL SCIENCE

### ABOUT THE DEPARTMENT

The Department is recognized internationally for its excellence in the areas of Indian Politics, International Relations and Geopolitics. Ranked highly in terms of research, teaching interface, the department is served by faculty of international repute. It has been designated by the UGC as a Department of Career Advancement. The Department has recently been upgraded from SAP to CAS – I for a period of five years beginning from April, 2016. The Department invites distinguished visiting scholars and holds workshops and conferences under this programme. In addition, the department also annually holds Shahid Bhagat Singh Memorial Lecture, Professor Pradeep Kumar Memorial Lecture and J.C. Anand Memorial Lecture. It has a vibrant Political Science Society, membership to which is compulsory for all the students.

The faculty has published extensively in the form of books, monographs, reports, articles, reviews, commentaries, perspectives and research papers in reputed journals. Some of the faculty members have also been on the editorial boards of reputed international journals.

### FACULTY

Designation	Name	Field of Research Specialization
Prof. Emeritus	M.M.Puri	International Relations/Geopolitics
Prof. Re-employed	Bhupinder Brar	International Relations /Political Theory
Professors	Sanjay Chaturvedi	International Relations/Geopolitics/India Ocean/Polar Region
	Ashutosh Kumar	Indian Politics/ State Politics in India
	Ronki Ram	International Relations/Dalit Politics
	Pampa Mukherjee	Development Politics; Environment & Politics
Associate Professors	Deepak K. Singh	International Relations/Migration in South Asia
	Navjot ( <b>Chairperson</b> )	Political Thought/Dalit Politics
Assistant Professor	Janaki Srinivasan	Development Studies, Political Theory, Gender Studies

### COURSES OFFERED (SEMESTER SYSTEM)

Course	Seats	Duration	Eligibility*	Admission Criteria
M.A.	60+6 NRI	2 Year	Passed one of the following examinations from a recognized University: Bachelor's Degree obtaining at least 45% marks in the subject of Political Science, or 50% marks in the aggregate. OR B.A. with 45% marks in any social science discipline. OR B.A. with (Hons) in the subject of Political Science or B.Sc. (Hons.). OR Master's degree examination in any other subject.	Based on Merit **
Ph.D	2	3-6 Years	M.Phil/Ph.D Prospectus-2017	

\*5% Concession is admissible in eligibility marks to SC/ST/BC/PwD Candidates.  
 \*\*(i) Subject Weightage will be given to candidates who have taken six full papers in Political Science in B.A. Course .  
 (ii)Weightage for Hons. in Political Science i.e. 15% shall be given to those candidates who have studied ten papers in Political Science in B.A. Course

**TILES OF SYLLABI:** (Detailed syllabi available at <http://puhcd.ac.in/syllabus.php>)

### M.A.

Semester-I		Semester-II	
Paper-1	Western Political Thought-I	Paper-1	Western Political Thought- II
Paper-2	Key Concepts in Political Analysis	Paper-2	Comparative Politics-I: Understanding Advanced Industrial Societies
Paper-3	Indian Politics: Institutions at Work	Paper-3	Indian Politics: Political Processes
Paper-4	International Relations: An Historical Overview	Paper-4	Theories of International Relations

Semester-III		Semester-IV	
Paper-1	Indian Political Thought-I (Compulsory)	Paper-1	Indian Political Thought-II (Compulsory)
Paper-2	Comparative Politics-II: Understanding Developing Societies (Compulsory) Or Comparative Political Systems with special reference to USA, UK, China, Japan & Switzerland	Paper-2	Foreign Policy of India (Compulsory)
Paper-3	Opt any one of the following options: (a) International Organization (b) Transnational Actors in International Politics (c) Politics of Development in India (d) Peace and Conflict Resolution (e) Rethinking Geopolitics: Critical Perspectives (f) Theories of Development (g) Public International Law-I	Paper-3	Opt any one of the following options: (a) Parties and Electoral Politics in India (b) State Politics in India (c) Decentralized Governance and Local Level Institutions in India (d) Political Sociology with special reference to India (e) Representing "India": Geopolitical Imaginations
Paper-4	Opt any one of the following options: (a) Democracy in India (b) Government & Politics of India's Neighbours (Pakistan, Bangladesh, Nepal and Sri Lanka). (c) Women and Politics in India (d) Rights: Ideas and Movements (e) Nationalism: Theory and Context (f) New Political Geography in Comparative Perspective (g) Policies and Politics of Development in India (h) Public Administration	Paper-4	Opt any one of the following options (a) Feminist Political Theory (b) Major themes in Recent Political Philosophy (c) Readings in the Philosophy of Resistance and Liberation (d) Contemporary Debates in 20th Century Marxism (e) Introducing Federalism (f) Public International Law-II

**THRUST AREAS:** Indian Politics, International Relations, Geo-Politics.

**PLACEMENTS:** - The notice board of the Department displays subject related job & internship opportunities in different national & international research organizations. A designated faculty member incharge of placements also provides career counseling to students.

**ALUMNI RELATIONS:** - The Department is developing a database of information about all former students of the University. The Department also has a facebook page – 'PU POLSCIENCE' where all such activities are shared.

## DEPARTMENT OF PSYCHOLOGY

### ABOUT THE DEPARTMENT

The faculty members of the Department of Psychology have made their mark in the field of Psychology both at the National and International level. The faculty is actively engaged in research in Cognition, Life Span Developmental Psychology, Health Psychology, Positive Psychology, Sports Psychology, Stress Disorders, Mental Training and Excellence, Clinical Psychology, Child Psychopathology, Behavioural Economics. The faculty has also made valuable contribution to all aspects of society by participating in the Youth Development Programmes, Punjab Engineering College initiatives, PSIPA initiatives, Police Training Sessions, Mental Training and Excellence, international endeavors, Cognitive Training, Social Welfare etc. Besides executing its social responsibilities, the department has been attracting highly meritorious National and International students in its M.A., Post M.A. and Ph.D. Courses. The Department also houses a Counseling Centre.

**FACULTY**

<b>Designation</b>	<b>Name</b>	<b>Field of Research Specialization</b>
Professor Emeritus	Jitendra Mohan	Applied Psychology: Sports Psychology, Positive Psychology & Health Psychology
Professors	Anuradha Bhandari	Child Psychopathology, Health Psychology, Life Span Developmental Psychology
	Meena Sehgal	Health Psychology, Positive Psychology
	Harpreet Kanwal Chhabra ( <b>Chairperson</b> )	Cognition: Experimental Cognitive Psychology, Behavioural Economics, Industrial Psychology, Organizational Psychology, Counseling
	Seema Vinayak	Organizational Psychology, Media Psychology, Clinical Psychology
Assistant Professor	Roshan Lal	Social Psychology, Clinical Psychology

**COURSES OFFERED (SEMESTER SYSTEM)**

<b>Course</b>	<b>Seats</b>	<b>Duration</b>	<b>Eligibility*</b>	<b>Admission Criteria</b>
M.A.	68+9 NRI	2 Years	Passed one of the following examinations from a recognized University: Bachelor's Degree obtaining 45% marks in Psychology or 50% marks in aggregate from a recognized University OR B.A.(Hons) with Psychology OR B.Sc.(Hons.School) OR Master's degree in any other discipline	Based on Merit
Post M.A. Diploma in Professional Counseling and Psychotherapy	23+3 NRI	1 Year	M.A. Psychology with 55% Marks from a recognized University	Based on Merit
Ph.D.	25	3–6 Years	See M.Phil/Ph.D. Prospectus 2017	
* 5% Concession is admissible in eligibility marks to SC/ST/BC/PwD Candidates				

**TITLES OF SYLLABI:** Detailed syllabi available at <http://pu.chd.ac.in/syllabus.php>.

**M.A.**

<b>Semester – I</b>		<b>Semester – II</b>	
Paper-1	Theories and Systems of Psychology-I	Paper-1	Theories and Systems of Psychology-II
Paper-2	Social Psychology-I	Paper-2	Social Psychology-II
Paper-3	Experimental and Cognitive Psychology-1	Paper-3	Experimental and Cognitive Psychology-II
Paper-4	Research Methodology and Statistics-1	Paper-4	Research Methodology and Statistics-II
Paper-5	Practicum-1	Paper-5	Practicum-II
<b>Semester – III</b>		<b>Semester – IV</b>	
Paper-1	Research Methodology and Statistics-I Compulsory	Paper-1	Research Methodology and Statistics-II Compulsory
Paper-2	Practicum	Paper-2	Practicum
	Options (any three papers)		Options (any three papers)
Paper-1	Organizational Psychology-I	Paper-1	Organizational Psychology-II
Paper-2	Child Psychopathology-I	Paper-2	Industrial Psychology
Paper-3	Life Span Developmental Psychology-I	Paper-3	Clinical Psychology: Prevention and Intervention
Paper-4	Clinical Psychology: Psychodiagnosics	Paper-4	Sports Psychology-II
Paper-5	Clinical Disorders	Paper-5	Applied Counselling: Specialties in Practices of Counselling
Paper-6	Counselling Psychology: Professional Foundation	Paper-6	Applied Counselling: Educational and Career Counselling

Paper-7 Counselling Psychology: Approaches and Appraisal	Paper-7 Life Span Development Psychology-II
Paper-8 Sports Psychology-I	Paper-8 Child Psychopathology-II
Paper-9 Positive Psychology-I	Paper-9 Health Psychology-II
Paper-10 Health Psychology-I	Paper-10 Para Psychology
Paper-11 Media Psychology-I	Paper-11 Positive Psychology-II
Paper-12 Behavioural Economics	Paper-12 Media Psychology-II
<b>Post M.A. Diploma in Professional Counselling and Psychotherapy</b>	
<b>Semester - I</b>	<b>Semester - II</b>
Paper-1 Preparation for Counselling	Paper-1 School and Career Counselling
Paper-2 Assessment and Diagnosis	Paper-2 Marital and Family Counselling
Paper-3 Patterns of Maladaptive Behaviour	Paper-3 Treatment and Interventions
Paper-4 Problems and Issues of Exceptional Children	Paper-4 Addictive Disorders

**THRUST AREAS:** Pure and Applied Psychology: Cognition, Health Psychology, Clinical Psychology, Personality, Counselling, Psychological Testing, Sports Psychology, Positive Psychology, Media Psychology, Life Span Developmental Psychology.

**PLACEMENTS:** M.A. Psychology students get successful placements with Schools, Colleges, Hospitals and NGOs.

**ALUMNI RELATIONS:** There is an annual Alumni Meet. Besides this, alumni frequently visit the department for academically interacting with the students.

## DEPARTMENT OF PUBLIC ADMINISTRATION

### ABOUT THE DEPARTMENT

The Department of Public Administration, set up in 1961, has the distinction of being one of the first Public Administration Departments in the country. It has been actively engaged in quality teaching, research, training as well as consultancy in the applied fields of Public Administration. The Department has excellent infrastructure for academic and research related activities. It has a well- equipped library, seminar room and computer laboratory with internet. The Department's Administrative Sciences Society organizes debates, educational tours and cultural activities. The Department has produced more than 165 Ph.D.s; majority of the Ph.D. dissertations are survey-based focusing on the analysis and solutions of practical problems of administration in the Third World. The Department has also undertaken research projects and consultancies funded by prestigious agencies like Department for International Development (DFID), U.K.; Canadian International Development Agency, Commonwealth Youth Programme Asia and University Grants Commission. The alumni of the Department are well placed academics and administrators. The Department has successfully conducted training programmes for civil servants, non-teaching employees of the University and other educational/research institutions of the region, executives of public enterprises and other government officials, besides organizing refresher courses and seminars on various aspects of Public Administration from time to time.

### FACULTY

Designations	Name	Field of Research Specialization
Professors	B.S. Ghuman	Economic Administration; Public Enterprise Management including privatization; Poverty and Sustainable Development; Research Methodology; Educational Administration; E-Governance; Public anagement; Decentralization; Public Policy; Regulatory Administration; Food Security
	Ramanjit Kaur Johal <b>(Chairperson)</b>	Public Policy; Comparative Public Administration; Administrative Ethics; Administration of NGOs; Social Policy & Welfare Administration; Initiatives in Peoples' Participation; Management Information Systems and E-governance; Administrative and Office Management; Public Enterprise Management

	Charanjeet Singh (On leave)	Financial Administration and Management; Local Government; Computer Applications; Public Enterprise Management; Poverty Alleviation Programmes (Urban & Rural)
Assistant Professors	Komal Singh	Administrative Law; Administrative Theory; Development Administration; Local Government in India; Comparative Public Administration; Public Health Policy and Administration; Education Policy and Administration
	Navreet Kaur	Social Welfare Administration; Citizen Centric Governance; Financial Inclusion
	Bharati Garg	Educational Administration; Social Welfare Administration; Emerging Areas in Public Administration; NGOs; Public Policy; E-Governance; Local Governance
	Bhawna Gupta	Public Enterprise Management; E-Governance; Educational Administration; Economic Administration

**COURSES OFFERED (SEMESTER SYSTEM)**

Course	Seats	Duration	Eligibility*	Admission Criteria
M.A.	60**+9 NRI	2 Years	Passed one of the following examinations from a recognized University: Bachelor's Degree obtaining 45% marks in Public Administration or 50% marks in Aggregate. OR B.A. (Hons) in Public Administration or B.Sc.(Hons.) course. OR Master's Degree examination in any discipline. OR B.A. (Pass) with 45% marks in Political Science or Economics or Sociology or Psychology.	Based on Merit
M.Phil	10+2 NRI+2***	1 Year	See M.Phil/Ph.D Prospectus 2017	
Ph.D.	2	3-6 Years	See M.Phil/Ph.D Prospectus 2017	

\*5% Concession is admissible in eligibility marks to SC/ST/BC/PwD Candidates  
\*\* Out of the total, 15 seats will be offered to the candidates who have studied related Social Sciences i.e. Economics, Political Science, Sociology, and Psychology at the graduation level.  
\*\*\* Reserved for the permanent teachers of affiliated colleges.

**TITLE OF SYLLABI** (Detailed syllabi is available at <http://puchd.ac.in/syllabus.php>)

Semester-I		Semester-II	
Paper-1	Administrative Theory	Paper-1	Administrative Thought
Paper-2	Organisational Behaviour	Paper-2	Research Method
Paper-3	Public Financial Administration	Paper-3	Public Policy and Administration
Paper-3	Public Personnel Administration	Paper-3	Administrative Law
Paper-4	Indian Economic System	Paper-4	Indian Political System
Paper-5	Indian Social System	Paper-5	Indian Administrative System
Semester-III		Semester-IV	
Paper-I:	Development Administration (Compulsory for all groups)	Paper-I:	Emerging Areas in Public Administration (Compulsory for all groups)
Group A:	Applied Development Administration (with special reference to India)	Group A:	Applied Development Administration (with special reference to India)
	II. Social Policy and Welfare Administration (Compulsory)		II. Education Policy and Administration (Compulsory)
	III. People's Empowerment and Rural Governance (Compulsory)		III. People's Empowerment and Urban Governance (Compulsory)
	Opt Any two:		Opt Any two:
	IV. Disaster Management		IV. Police Administration
	V. Administration of Non-Government Organisations		V. International Administration
	VI. Public Health Policy and Administration		VI. Information Technology and Computer Applications in Public Administration
	VII. Comparative Public Administration		VII. Ethics in Public Administration
	VIII. Dissertation		

<p>Group B: Economic Administration (with special reference to India) II. Economic Administration (Compulsory) III. Company and Cooperative Law (Compulsory) Opt Any two: IV. Human Resource Management V. Financial Management VI. Corporate Governance VII. Comparative Public Administration VIII. Dissertation</p> <p>Group C: Human Resource Management (with special reference to India) II. Labour Economics (Compulsory) III. Human Resource Management (Compulsory) Opt Any two: IV. Social Policy and Welfare Administration V. Administration of Non-Government Organisations VI. Corporate Governance VII. Comparative Public Administration VIII. Dissertation</p> <p>Group D: Administrative Management (with special reference to India) II. Administrative and Office Management (Compulsory) III. Administration of Non-Government Organisations (Compulsory) Opt Any two: IV. Management of Disciplinary Proceedings V. Human Resource Management VI. Corporate Governance VII. Comparative Public Administration VIII. Dissertation</p>	<p>Group B: Economic Administration (with special reference to India) II. Project Management (<b>Compulsory</b>) III. Public Enterprise Management (<b>Compulsory</b>) Opt Any two: IV. Marketing Management V. Industrial Relations VI. Information Technology and Computer Applications in Public Administration VII. Ethics in Public Administration</p> <p>Group C: Human Resource Management (with special reference to India) II. Labour Laws (<b>Compulsory</b>) III. Organisational Psychology (<b>Compulsory</b>) Opt Any two: IV. Industrial Relations V. Labour Policy and Administration VI. Information Technology and Computer Applications in Public Administration Ethics in Public Administration</p> <p>Group D: Administrative Management (with special reference to India) II. Techniques of Administrative Improvement (<b>Compulsory</b>) III. Information Technology and Computer Applications in Public Administration (<b>Compulsory</b>) Opt Any two: IV. Organisational Psychology V. Industrial Relations VI. Project Management VII. Ethics in Public Administration</p>
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**THRUST AREAS:** The thrust areas in the subject of Public Administration are Public Policy, Administrative Theory, Human Resource, Financial, Social and Economic Administration. Apart from these, the areas of research and teaching include Development Administration; Health, Education, Public Enterprise Management and Computer Applications.

**PLACEMENTS:** The students are placed in the education, government, banking, insurance and various other sectors after clearing different competitive examinations like civil services, UGC NET, SSC etc.

**ALUMNI RELATIONS:** Among the alumni of this Department who are/were occupying high positions in various walks of life are Dr. M.S. Gill, Former Chief Election Commissioner, former Minister of Sports; Dr. Dinesh Chandra, Former Additional Secretary, Government of India; Dr. G.S. Aujla, Additional Director General Police, Punjab; Sh. Jagjit Puri, IAS (Retd.); Dr. A. Didar Singh, IAS (Retd.), Secretary General, FICCI, New Delhi; Dr. Tilak Raj Sarangal, IAS (Retd.), Principal Secretary, Govt. of Punjab; Sh. Dinesh Malhotra, IAS, Managing Director, H.P. Tourism Development Corporation; University Teachers; and central and state government/public enterprise officials. The alumni of the Department are also well placed in various countries like Thailand, Nepal, Bangladesh, Iran, Kenya, Ethiopia etc.

## DEPARTMENT OF SOCIOLOGY

### ABOUT THE DEPARTMENT

The Department of Sociology, Panjab University was established in 1960. Recognizing its academic and research excellence, the University Grants Commission awarded the status of Special Assistance Programme to this department in 1977 which later was upgraded as Centre for Advanced Study. The Department runs teaching and research programs at M.A., M. Phil. and Ph.D. levels. It offers a wide spectrum of specialized courses in order to equip students to pursue specializations

in areas of their interest. Course curriculum, regularly updated and revised, has both academic as well as societal relevance and incorporates contemporary debates on social issues. Research Methodology is a stronghold of the department. At any given point of time about half a dozen research scholars from different countries pursue their Ph.D. programme in the Department. The Department has a long tradition of holding National and International seminars, workshops and symposia. For the last 57 years the 'Wednesday Seminar' has been its hallmark bringing together scholars, professionals and social activists interested in sociologically relevant issues as initiators of discussions. The Faculty besides teaching and research is much sought after for extension and guest lectures in various Universities, Colleges and Organizations. Apart from Research Projects of academic nature, the faculty members have also been involved in various Policy/Programme support Research Projects from time to time. They have also been bringing out publications on various relevant social issues, over the years.

### FACULTY

Designation	Name	Field of Research Specialization
Professors	Manjit Singh	Political Economy of Labour, Political Sociology Stratification
(Re-employed)	Krishan Kumar Bansal	Social Statistics, Queuing Systems and Social Problems
Professors	Sherry Sabbarwal	Development Studies, Entrepreneurship Behaviour, Women's Studies, Human Rights and Media & Culture
	Rajesh Gill	Urban Studies, Research Methodology, Poverty and Slums, Gender Studies
	Kiran Preet Kaur	Sociology of Organization, Industrial Sociology, Entrepreneurial Studies
	Kumool Abbi <b>(Chairperson)</b>	Cultural Studies, Gender Studies and Development Studies
Assistant Professors	Rani Mehta	Development Studies, Environment Studies Education and Population Studies.
	Moniva Sarkar	Conflicts Studies, Gender Studies, Criminology, Social Stratification, Development Studies, Migration Studies
	Vinod Kumar	Environmental Crises and Development, Migration, Diaspora Urban Sociology, Population Studies and Women Studies

### COURSES OFFERED (SEMESTER SYSTEM)

Course	Seats	Duration	Eligibility*	Admission Criteria
M.A.	68+9 NRI	2 Years	Passed one of the following examinations from a recognized University: Bachelor's Degree obtaining at least 45% marks in the Sociology or 50% marks in the aggregate. OR B.A. (Hons) in the subject of Post graduate Course or B.SC.(Hons.). OR Masters Degree examination in any other subject.	Based on Merit**
M. Phil.	15	1 Year	See M. Phil / Ph.D Prospectus 2017	
Ph. D.	3	3-6 Years	See M.Phil / Ph.D Prospectus 2017	

\*5% Concession is admissible in eligibility marks to SC/ST/BC/PwD Candidates

\*\* (i) Subject weightage will be given to candidates who have taken six full papers in Sociology in B.A. course

(ii) Weightage for Hons. (15%) in Sociology shall be given in case the candidate has studied ten papers (6+4=10)

**TITLES OF SYLLABI:** Detailed syllabi available at <http://puhd.ac.in/syllabus.php>.

### M.A.

Semester-I		Semester-II	
Paper-I	History of Social Thought (Compulsory)	Paper-I	Positivistic Sociological Theories(Compulsory)
Paper-2	Sociology of Family And Gender (Compulsory)	Paper-2	Methodology of Social Research(Compulsory)
Paper-3	Sociology of Development (Compulsory)	Paper-3	Population And Society
Paper-4	Social Stratification: Concepts And Theories (Compulsory)	Paper-4	Social Dimensions of Development
		Paper-5	Sociology of Urban Settlements
		Paper-6	Structural Moorings Of Gender Oppression

	Paper-7 Peasants And Rural Society In India Paper-8 Organizational Theory And Behaviour Paper-9 Basic Social Statistics
<b>Semester-III</b>	<b>Semester-IV</b>
Paper-1 Interpretive Sociological Theories (Compulsory) Paper-2 Methods And Techniques In Social Research (Compulsory) Paper-3 Basic Methods In Population Studies Paper-4 Social Development In India  Paper-5 Rural Development In India Paper-6 Problems of Urban India Paper-7 Family in Cross Cultural Perspective Paper-8 Sociology of Aging Paper-9 Organizational Structure And Development Paper-10 Sociology of Deviance: Concepts And Theories Paper-11 Sociology of Crime Paper-12 Dissertation Paper-13 Advanced Social Statistics	Paper-1 Perspectives on Indian Society (Compulsory) Paper-2 Determinants and Consequences Of Population Growth (Compulsory) Paper-3 Sociology Of Human Migration Paper-4 Environmental Crisis And Sustainable Development  Paper-5 Entrepreneurship And Development Paper-6 Cities, Urban Planning And Development Paper-7 Family Dynamics In Contemporary India Paper-8 Gender And Development Paper-9 Fundamentals Of Industrial Sociology Paper-10 Social Problems Paper-11 Political Sociology Paper-12 Sociology Of Marginalized Communities Paper-13 Dissertation Paper-14 Media And Culture

**THRUST AREAS:** Sustainable Development (in the context of Globalization, Information, Communication and Technology) Family and Gender Studies Population, Health and Aging Social Control and Deviance (with special reference to Activism, Terrorism and Cyber Crimes)

**PLACEMENTS:** We have set up a Placement Cell. Dr. Rani Mehta is the Coordinator of the Placement Cell. The Placement Cell coordinates with the Central Placement Cell, Panjab University and attempts to guide students for successful career placements in Academics, Industry and NGO's. It also guides students who want to pursue further research.

## SCHOOL OF COMMUNICATION STUDIES

### ABOUT THE DEPARTMENT

The School of Communication Studies at Panjab University was set up in 1941 at the University of Punjab, Lahore. The founding father of the School was Professor PP Singh who studied journalism in the University of Missouri, Columbia, USA. Our faculty members have Research Fellowship, Projects, International Fellowship and International Best Research paper award to their credit and continue to act as consultants and trainers beyond the classroom. They are editors and serve as members of the editorial boards in Research Journals of repute. The part-time/visiting faculty of the School comprises of eminent, veteran and award-winning reporters, columnists, authors, magazine editors, documentary filmmakers, and digital media specialists. The School of Communication Studies has been awarded with the prestigious Chanakya award, for the 'Business Communication School of the Year (National) 2011-2012, by the Global Conclave of Public Relations Council of India and Indy's award for Excellence in Mass Communication in the year 2013 by the Stars of the Industry Awards.

91.2 MHz, Jyotirgamaya, the CRS (Community Radio Station) of the Panjab University is being run by the School of Communication Studies. It was inaugurated on 13th February, 2011 and is acting as a unifying agent amongst the university faculty, students and also the community. Having started its journey with just a half-an-hour broadcast per day, today the station proudly offers four broadcasts a day that include a total of nine programmes running for over 10 hours. The CRS is recipient of a DST grant to run its special programme on Science for Women Health and Nutrition. The Public Relations Council of India awarded the special programme "Hamari Beti" run by PU CRS.

An Educational Multimedia Research Centre (EMMRC) and a PU Centre for Media Studies (PUCMS) are on their way to be set up in the School of Communication Studies with the purpose of outreach activities.



**FACULTY**

Designation	Name	Field of Research Specialization
Professors	Sanjay Wadwalkar Archana R. Singh <b>(Chairperson)</b> Mohanmeet Khosla	Advertising & Communication Print Media, New Media, Health Communication Print Media, New Media
Associate Professor	Jayanth N. Pethkar	Public Relations, Radio & TV Communication, Sports Journalism
Assistant Professors	Sumedha Singh	Development Communication, Print Media Advertising & Public Relations, Feature Writing
Part Time Faculty	Bhavneet Bhatti	Professionals from various organizations including Print, Electronic Media, Public Relations & Advertising

**COURSES OFFERED (SEMESTER SYSTEM)**

Course	Seats	Duration	Eligibility*	Admission Criteria
M.A. (Journalism & Mass Communication)	30+5 NRI	2 Years	Passed one of the following examinations from a recognized University: Bachelor's degree in any discipline with 50% marks in aggregate. OR Bachelor's degree with at least 45 % marks in the subject of Journalism & Mass Communication OR Bachelor's degree with Hons. in the subject of Journalism & Mass Communication. OR Master's degree in any other subject.	Based on PU-CET(PG)** Academics: 40% PU-CET(PG): 60%
PG Diploma in Advertising & Public Relations	15	1 Year	Bachelor's degree in any discipline from any recognized University	Based on Aptitude Test
Ph.D	8	3-6 Years	See M.Phil/Ph.D Prospectus 2017	

\*5% Concession is admissible in eligibility marks to SC/ST/BC/PwD Candidates

\*\* The total marks for Entrance Test are 75, which have been split up as under :

(i) Marks for Written Test 65

(ii) Marks for Group Discussion 5 (iii) Marks for Interview 5

The aggregate marks obtained above will be normalized to marks scored out of 60.

**Notes:** 1. Only those candidates will be called for group discussion & interview, in order of merit, who have secured a minimum of 40% marks in the Written Test except in case of candidates belonging to SC/ST/BC/PwD who must secure a minimum of 35% marks.

2. The number of candidates called by the department for group discussion/interview shall be five times the number of seats in each category if the number of candidates is very large.

3. Should any category not have five times the number of candidates then all the candidates in that particular category shall be called for Group Discussion and Interview.

4. The candidates called for Group Discussion and Interview will have to produce Detailed Marks Card (DMC) of the qualifying exam in original on or before the final day of Group Discussion/Interview schedule, failing which they shall not be allowed to participate in the Group Discussion and Interview.

**TITLES OF SYLLABI:** Detailed syllabi available at <http://puchd.ac.in/syllabus.php>.

**M.A.**

Semester-I		Semester-II	
Paper-I	Introduction to Communication;	Paper-I	Communication Theory
Paper-II	Basics of Print Journalism	Paper-II	Print Journalism
Paper-III	Growth & Development of Print and Broadcast Media	Paper-III	Editing and Design for Print Media
Paper-IV	Radio & TV Communication- I	Paper-IV	Radio & TV Communication
Paper-V	Media Ethics & Laws	Paper-V	Media Management
Practical	Student Reporter, Tele News Board, Broadcast Practical, Communication Theory Practical, Computer Applications	Practical	Student Reporter, Tele News Board, Broadcast Practical, Communication Theory Practical, Computer Applications

Semester-III		Semester-IV	
Paper-I	Advertising	Paper-I	Advertising
Paper-II	Public Relations	Paper-II	Public Relations
Paper-III	Media and Communication Research Methods	Paper-III	Media and Communication Research Practice
Paper-IV	Interpretative Journalism	Paper-IV	Investigative Journalism
Paper-V	Development Communication	Paper-V	Inter-cultural Communication
Practical	Major Project Report, Minor Project Reports/ Position Papers, 1 project/position paper in each of the 5 papers, Computer Applications		Specialization/Optional Papers (any four options have to be taken)
		Paper-VI	Advertising Copy Writing: Theories of Hopkins & Ogilvy
		Paper-VII	Corporate Communication
		Paper-VIII	Computer Mediated Communication
		Paper-IX	Online Journalism
		Paper-X	Communication Skills
		Paper-XI	Dissertation Internship

**THRUST AREAS:** Print Media, Advertising, Public Relations, Media Management, Broadcast Media and Communication Research Methods.

**PLACEMENTS:** SCS has a Faculty member who acts as the Placement Coordinator and arranges for organizing the tests and interviews for the purpose of Placement in SCS.

**ALUMNI RELATIONS:** School of Communication Studies holds regular alumni meets and organizes formal and informal interactions with the alumni.

## DEPARTMENT-CUM-CENTRE FOR WOMEN'S STUDIES AND DEVELOPMENT

### ABOUT THE DEPARTMENT

The Department-cum-Centre for Women's Studies and Development was originally set up as a Centre for Women's Studies and Development in 1987. It was one of the first Five Centres set up by the University Grants Commission. On the basis of its excellent performance, it was one of the six Centres placed in Phase III by the UGC. The Department seeks both to interpret women's experiences as well as to change women's condition, through a transformation of consciousness, social norms and modes of action. It visualizes itself as a catalyst to transform an unjust, inegalitarian society into one where gender justice and equality would be the norm.

The aim is to create and maintain a teaching/learning environment for feminist and gender studies, and provide an impetus for sustaining a research community that contributes to the development of women's and gender scholarship within the two-third world/Indian context. The prime objectives are to create awareness, to intellectually equip students and to empower all. Teaching, Training, Research, Extension, Dissemination, Lobbying and Advocacy are the core activities. It serves as a resource and nodal Centre for the region and true to its mandate, has developed as a strong academic Centre of teaching and learning, generating new thinking and knowledge on feminist theory and initiating courses in women's studies.

### FACULTY

Designation	Name	Field of Research Specialization
Prof. Emeritus	Pam Rajput	Women & Politics; Women's Human Rights; Women & Development, Women & Law
Professor	Manvinder Kaur	Women and Culture; Feminist Theory; Women and Development/Human Rights
Assistant Professors	Ameer Sultana <b>(Chairperson)</b> Rajesh Kumar Chander	Women's Movement; Women and Health; Violence against Women; Women and Politics Feminist Research Methodology; Women and Entrepreneurship; Dalit Studies; Dalit Women

**COURSES OFFERED (SEMESTER SYSTEM)**

Course	Seats	Duration	Eligibility*	Admission Criteria
M.A.	30+2 NRI	2 Years	Passed one of the following examinations from a recognized University: Bachelor's degree in any faculty with at least 50% marks in the aggregate. OR B.A.(Hons) in Women Studies or B.Sc.(Hons.). OR Master's Degree in any faculty. OR B.A. (Pass) with at least 45% marks in Women's / Gender Studies or Public Administration or Political Science or History or Economics or Sociology or Psychology or Gandhian Studies or Geography or Philosophy or Human Rights & Duties.	Based on Merit  Subject Weightage for Hons. shall be give in any one of the following subjects: B.A. with Hons. Degree in Women's/ Gender Studies, Public Administration, Political Science, History, Gandhian Studies, Sociology Economics, Psychology, Geography, Philosophy, Human Rights & Duties
PG Diploma in Women's Studies	15+2 NRI	1 Year	Bachelor's Degree in any faculty with at least 50% marks in the aggregate from a recognized University OR B.A.(Pass) with at least 45% marks in Women/Gender Studies or Public Administration or Political Science or History or Economics or Sociology or Psychology or Gandhian Studies or Geography or Philosophy.	Based on Merit
Ph.D.	2	3-6 Years	See M.Phil/Ph.D. Prospectus 2017	
*5% Concession is admissible in eligibility marks to SC/ST/BC/PwD Candidates				

**TITLE OF SYLLABI** (Detailed course curriculum is available at (<http://puhd.ac.in/syllabus.php> )

**M.A.**

Semester-I		Semester-II	
Paper-1	Conceptualizing Women's Studies	Paper-1	Feminism : An Indian Perspective
Paper-2	Women's Movement in India	Paper-2	Emerging Trends in Research Methodology
Paper-3	Feminist Theory	Paper-3	United Nations and Women's Issues
Paper-4	Fundamentals of Social Research	Paper-4	Optional Paper (i) Field Project OR (ii) Women and Environment
Semester-III		Semester-IV	
Paper-1	Women and Law-I	Paper-1	Women and Politics
Paper-2	Women and Development	Paper-2	Women and Law-II
Paper-3	Women and Development Women and Human Rights	Paper-3 & 4	Opt any two papers (i) Women and Work (ii) Women and Health (iii) Women and Media OR Dissertation in lieu of two papers
Paper-4	Opt any one paper: (i) Women and Management (ii) Women and Entrepreneurship (iii) Training in Practical Skills (iv) Women, Science and Technology		

**THRUST AREAS:** In an era of globalization, interdisciplinary courses are the need of the hour and women's studies course is trying to meet the need. Moreover, field based studies enable student develop gender responsive approach towards society. Emerging challenges like gender based violence and commodification of women, portrayal of women in media and literature are also dealt with.

**PLACEMENTS :** Our students get jobs in Education and Research sector; Government Agencies such as Department of Women and Child Development, Social Welfare Department; NGOs; International Bodies working on Gender Issues.

**ALUMNI RELATIONS:** The Alumni is collaborating with the Department in organizing academic and extension activities for women's development and empowerment on a regular basis.

A whatsapp group named -"Nayii Soch" has been created as a discussion group to disseminate information, brainstorm on issues relating to women and gender and it keeps all alumni updated about the activities of the Department.

## **II. FACULTY OF BUSINESS MANAGEMENT AND COMMERCE**

### **UNIVERSITY BUSINESS SCHOOL**

#### **ABOUT THE SCHOOL**

University Business School (Formerly Department of Commerce and Business Management) was established in 1962 and has been imparting quality management education to develop dedicated, innovative and effective managers, researchers and teachers for more than 50 years. In 1995, the Department of Commerce and Business Management was renamed as University Business School by the Panjab University in recognition of its completeness and maturity with a view to give it a distinct identity.

The philosophy of Management Education at University Business School is built on an integrative value system. It is motivated by duty bound work ethics, humane approach and scientific temper. Modern attitude, practical wisdom, knowledge and skills, relevant for management are deeply ingrained in the students. The philosophy of the School is translated into the mission of creating wholesome personality of human beings with a view to produce effective and efficient managers, researchers and teachers.

The School uses rigorous multi-faceted pedagogy approach with an effective interface with the industry to translate this mission into action. It creates opportunities for its students to enhance their understanding of economic, social and political environment to enlarge their ability not only to adjust to change but to become a catalyst, and to develop their power to conceptualize, decide and communicate. The School, through its integrative approach, inculcates human values in addition to managerial attitude, knowledge and skill.

The thrust of MBA, MBA-International Business (IB) and MBA-Human Resource Management (HR) is on producing managers for different functional areas.

M.Com. (Hons.) aims at producing Commerce professionals and teachers.

Ph.D. aims at producing researchers in management and commerce.

The School also runs MBA for Executives (MBAfEX) programme for the serving professionals in and around Chandigarh for sharpening their managerial skill.

#### **Achievements and Programmes**

The faculty of University Business School has trained in India and abroad, has earned international recognition in the industry and academia. The students produced by the School have made a mark in the world of management, research and teaching all over the world.

The School has been identified by University Grants Commission and All India Council for Technical Education for organizing Refresher Courses, Training Programmes and Induction Programmes in Management for University and College teachers. Management Development, consultancy and research in all the areas of management is given high priority at the School.

**SAP (SPECIAL ASSISTANCE PROGRAMME):** University Business School has been recognized by University Grants Commission under Special Assistance Programme.

#### **FACULTY**

<b>Designation</b>	<b>Name</b>	<b>Field of Research Specialization</b>
Professor Emeritus	T.N. Kapoor	Organisational Behaviour; Strategic Management.; General Management
Professors	Dinesh K. Gupta	Finance & Accounting; General Management; Human Resource Management.
	<b>(Chairperson)</b> Meenakshi Malhotra	Human Resource Management/Organisational Behaviour/ Industrial Relation; General Management
	A.K. Vashisht	Finance & Accounting/Banking; General Management

	S.K. Chadha	Marketing; International Business
	Manoj K. Sharma	Business Economics; Human Resource Management
	Smriti Sood	Marketing; General Management; Resource Management
	Anupam Bawa	Marketing; General Management
	Deepak Kapur	Marketing; General Management
	B.B. Goyal	Marketing; General Management
	Karamjeet Singh	Finance & Accounting/Banking; General Management
	Parmjit Kaur	Finance & Accounting/Banking; General Management
	Meena Sharma	Finance & Accounting/Banking; General Management
	Sanjay Kaushik	Human Resource Management/ Organisational Behaviour /Industrial Relation; General Management; Banking
	Suveera Gill	Finance & Accounting/Banking; General Management
	Gunmala Suri	General Management; Quantitative Techniques; Operation Research, Statistics and Research Methodology; Operation Management; Information Technology and E.Commerce/ Knowledge Management
Associate Professors	Navdeep Kaur	General Management; International Business
	Luxmi	Human Resource Management/Organisational Behaviour /Industrial Relation.; General Management
	Purva Kansal	Marketing General Management
Assistant Professors	Monica Bedi	Marketing; International Business
	Tejinderpal Singh	Marketing; E-Commerce
	Rupinder Bir Kaur	Human Resource Management.; General Management
	Tilak Raj	Business Economics; General Management
	Neha Gulati	Computer; General Management
	Kulwinder Singh	Business Economics; General Management
	Pooja Soni	Statistics Operation Research

**COURSES OFFERED (SEMESTER SYSTEM)**

Courses	Seats	Duration	Eligibility *	Admission Criteria***
MBA	64+9NRI	2 Years	Bachelor's Degree in any stream with not less than 50% marks in aggregate from a recognized University **	Based on CAT 2016
MBA (International Business)	30+4NRI	2 Years	OR a pass in the final examination conducted by the	Calculation of Merit:
MBA (Human Resource)	30+4NRI	2 Years	(a) Institute of Chartered Accountants of India or England OR (b) Institute of Cost and Works Accountants of India or England OR (c) Institute of Company Secretaries of India OR AMIE Examination with 50% marks or more after having passed the diploma examination with 60% marks or above and have at least 5 years research/teaching or professional experience.	CAT Score:85% Group Discussion: 7.5% Personal Interview:7.5%
MBAFEX	30+3NRI	2 Years	(i) Bachelor's Degree in any stream with not less than 50% marks in aggregate from a recognized University ** OR a pass in the final examination conducted by the Institute of Chartered Accountants of India or England/ Institute of Cost Accountants of India	Based on PU-CET (PG) Calculation of Merit: PU-CET (PG): 85% Group Discussion: 7.5% Personal Interview: 7.5%

			<p>or Chartered Institute of Management Accountants of England/Institute of Company Secretaries of India; OR Diploma in Personal Management and Labour Welfare or Diploma in Marketing Management with not less than 60% marks in the aggregate, provided the candidate holds a Bachelor's degree.</p> <p><b>(ii) Two years whole time executive experience</b> in a commercial or industrial establishment after having passed the qualifying examination as given above. Members of All India or State Administrative / Technical Services and Defence Personnel holding administrative positions with not less than two years of executive experience will also be eligible. Organizational sponsorship is essential.</p>	
M.Com. (Hons.)	27+3NRI	2 Years	<p>B.Com./B.Com. (Hons.)/ BBA with not less than 45% marks in the aggregate; OR a Graduate with Honours in Economics or Mathematics or Statistics or Commerce with not less than 45% marks in the aggregate; Computer Application, Information Technology or Computer Science as a subject in the examination**OR a pass in the final examination conducted by the Institute of Chartered Accountants of India or England/Institute of Cost and Works Accountants of India or England/Institute of Company Secretaries of India OR any other qualification recognized by the Syndicate for this purpose.</p>	<p>Based on PU-CET(PG) Calculation of Merit: PU-CET(PG): 85% Group Discussion: 7.5% Personal Interview: 7.5%</p>
Ph.D	20+1****	3-6 Years	See M.Phil/Ph.D Prospectus 2017	
<p>* 5% Concession is admissible in eligibility marks to SC/ST/BC/PwD Candidates</p> <p>** Provided that in case of candidates having Bachelor's degree of the University through Modern Indian Languages [Hindi/Urdu/Punjabi(Gurumukhi script)] and/or in a Classical Language (Sanskrit/Persian/Arabic) or degree of any other University obtained in the same manner recognized by the Syndicate; 50% marks in the aggregate shall be calculated by taking into account full percentage of marks in all the papers in Language excluding the additional optional papers English and Elective subject taken together</p> <p>*** The candidates will be called for Group Discussion and Personal Interview on the basis of their score in the CAT subject to the condition that they secure a minimum 10% score (5% in case of SC/ST/BC/PwD candidates) in each component of CAT. NRI candidates not residing in India and thereby unable to avail of the above admission process will be required to submit valid score of GMAT, which will be treated at par with the combined score of Written Test (CAT), Conducted by IIM, Group Discussion and personal interview conducted by University Business School, Panjab University, Chandigarh.</p> <p>**** one seat reserved for regular teachers of PU campus and affiliated colleges to Panjab University/UGC Rajiv Gandhi National Fellow/Sponsored Foreign Students holding valid research visa under ICCR</p>				

**TITLE OF SYLLABI:** Detailed Course Curriculum is available at <http://puchd.ac.in/syllabus.php>

**MBA**

<b>Semester-I</b>	<b>Semester-II</b>
Business Economics Business Statistics Management Accounting Organisational Behaviour Marketing Management Workshop on Business Computing Workshop on Business Research	Business Environment Human Resource Management Operations Management Financial Management Legal Aspect Of Business Summer Training Report and viva-voce Comprehensive viva-voce Workshop on Business Communication Workshop on Multivariate Statistical Techniques
<b>Semester-III</b>	<b>Semester-IV</b>
Strategic Management To opt for two groups out of the groups offered and further in one option group opt for three papers. In the other group to opt for two papers.	Human Values and Business Ethics Comprehensive Viva-Voce Student to continue with the two groups opted by them in third semester and further in each group opted by them they are to opt for two papers out of the papers offered.
<b>Group A: Entrepreneurship and General Management</b> Entrepreneurial Development and New Enterprise Management Entrepreneurial Finance Infrastructure and Project Finance Tax Planning for Entrepreneurs Investing in Private Equity Marketing for Entrepreneurship	<b>Group A: Entrepreneurship and General Management</b> Managing Strategic Implementation and Business Transformation Managing Teams Managing Global Enterprise Organisation Structure and Design
<b>Group B: Finance</b> Financial Statement Analysis Financial Engineering Management of Financial Services Investment Management Management Control Systems Project Planning, Analysis and Management	<b>Group B: Finance</b> Strategic Cost Management International Financial Management Behavioral Finance Corporate Governance
<b>Group C: Information Technology &amp; Operations Management</b> Mobile Commerce Product Innovation in Technology Business Business Process Re-Engineering Systems Analysis and Design Enterprise Resource Planning Management Information Systems	<b>Group C: Information Technology and Operations Management</b> Knowledge Management Management of Technology Business Intelligence Total Quality Management
<b>Group D: Marketing</b> Advertising and Consumer Behaviour Global Marketing Management Marketing Research and Product Management Internet Marketing and Retail Management Global Supply Chain Management Industrial and Rural Marketing	<b>Group D: Marketing</b> Marketing of Services Workshop on Foreign Trade Documentation and Trade Finance Customer Relationship Management and Sales Management Application of Accounting and Finance in Marketing
<b>Group E: Human Resource Management</b> Labour Legislation-I Strategic Human Resource Management Performance and Compensation Management Organisation Development Workshop on Training and Development Comparative Industrial Relations	<b>Group E: Human Resource Management</b> Human Resource Information system Personal Effectiveness and Leadership Workshop on Management of discipline and disciplinary proceedings Labour Legislation –II

**MBA (IB)**

<b>Semester-I</b>	<b>Semester-II</b>	<b>Semester-III</b>	<b>Semester-IV</b>
Organisational Behavior and International Human Resource Management	International Business Environment	Global Strategic Management	Cross Cultural Issues and International Business Negotiations
Marketing Management	International Financial Management	Global Supply Chain Management	International Brand Management
Business Statistics	Workshop on Foreign Trade Documentation and Trade Finance	International Business Law	Comprehensive viva-voce
Management Accounting	Operations Research	Workshop on Sectoral Strategies for Exports	Foreign Language - French
Seminar on Foreign Trade Policy and Management	Global Marketing Management	Seminar on International Marketing Research	Seminar on WTO and International Trade Policies
Seminar on Micro economics	Summer Training and viva-voce	Foreign Language - French	<b>Any two of the following:</b>
Workshop on Business Computing	Comprehensive viva-voce	<b>Any two of following:</b>	International Banking
Workshop on Business Research	Workshop on Business Communication	Seminar on Project Planning and Analysis	Technology and Strategic Consulting
	Workshop on Multivariate Statistical Techniques	Seminar on Corporate Restructuring and Re-engineering	International Accounting
		Seminar on Entrepreneurship Management	Total Quality Management
		Seminar On Regional Economic Groupings	

**MBA (HR)**

<b>Semester-I</b>	<b>Semester-II</b>	<b>Semester-III</b>
Economics for Human Resources	Labour Legislation-I	Labour Legislation-II
Business Environment	Industrial Relations and Labour Policy	Strategic Human Resource Management
Human Resource Management	Marketing Management	Performance and Compensation Management
Management Accounting	Production Management and Quantitative Techniques	Organisation Development
Organisational Behaviour	Summer Training and Viva-Voce	Workshop on Training and Development
Workshop on Business Computing	Comprehensive Viva-Voce	Workshop on Negotiating Skills and Participative Decision Making
Workshop on Business Research	Seminar on Management of Change	Seminar on Social Security and Labour Welfare
	Seminar on Human Resource Planning	
	Workshop on Qualitative Research Methods	
	Workshop on Business Communication	



**SEMESTER-IV**

Human Resource Information System Personal Effectiveness and Leadership Workshop on Management of Discipline and Disciplinary Proceedings Comprehensive viva-voce Seminar on Ethics and Conduct of Business Seminar on Interpersonal Skills and Transactional	Any one of the following out of the papers offered: Workshop on Human Resource Valuation Total Quality Management Stress Management Designing Organizations for Uncertain Environment Dynamics of Trade Unions Emotional Intelligence and Managerial Effectiveness Comparative Industrial Relations Managerial Competencies and Career Development Workshop on Building Learning Organisations Industrial Engineering Workshop on Secretarial Practice
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**M.Com (Hons)**

<b>Semester -I</b>	<b>Semester-II</b>
Organisational Behaviour Business Economics Business Statistics Business Finance Business Computing Business Environment Workshop on Business Communication Workshop on Business Research	Marketing Management Human Resource Management Operations and Material Management Management Information Systems Management of Financial Services Summer Training and viva-voce Seminar on Accounting Theory and Practice Seminar on Microfinance Management
<b>Semester-III</b>	<b>Semester-IV</b>
Business Strategy Advanced Auditing Seminar on Corporate Restructuring  Workshop on Teaching Theory and Practice Choose Any Two Groups of Electives Out of The Offered Groups	Corporate Governance Corporate Tax Planning Comprehensive Viva-Voce from syllabuses of all four semesters  To continue with the same two Groups of Electives opted in the 3rd Semester
<b>Group I: Accounting-I</b> Strategic Cost Management International Accounting	<b>Group I: Accounting-II</b> Management Control Systems Financial Statement Analysis
<b>Group II: Finance -I</b> International Financial Management Investment Management	<b>Group II: Finance-II</b> Project Planning, Analysis and Management Financial Engineering
<b>Group III: Banking and Insurance-I</b> Bank Management Insurance Management	<b>Group III: Banking and Insurance II</b> International Banking Actuarial Practice
<b>Group IV: Business Law -I</b> Socio-Economic Environmental Laws Industrial Laws	<b>Group IV: Business Law II</b> Intellectual Property Laws E-Security and CyberLaws
<b>Group V: Entrepreneurship and Family Business-I</b> Entrepreneurial Development and New Enterprise Management Entrepreneurial Finance	<b>Group V: Entrepreneurship and Family Business II</b> Marketing for Entrepreneurship Managing Strategic Implementation and Business Transformation

**MBAfEX**

<b>Semester-I</b>	<b>Semester-II</b>
Business Economics Business Statistics Management Accounting Organisational Behaviour Marketing Management Workshop on Business Computing Workshop on Business Research	Business Environment Human Resource Management Operations Management Financial Management Legal Aspect of Business Comprehensive viva – voce Workshop on Multivariate statistical Techniques
<b>Semester III</b>	<b>Semester-IV</b>
Strategic Management	Human values and Business Ethics
To opt for two groups out of the groups offered. And further in one option group opt for three papers. In the other group to opt for two papers.	Comprehensive viva-voce Students to continue with the two groups opted by them in third semester. And further in one group opted by them they are to opt for three papers out of the papers offered. In the other group they are to opt for two papers out of the papers offered.
<b>Group A: Entrepreneurship and General Management</b> Entrepreneurial Development and New Enterprise Management Entrepreneurial Finance Infrastructure and Project Finance Tax Planning for Entrepreneurs Investing in Private Equity Marketing for Entrepreneurship	<b>Group A: Entrepreneurship and General Management</b> Managing Strategic Implementation and Business Transformation Managing Teams Managing Global Enterprise Organisation Structure and Design
<b>Group B: Finance</b> Financial statement analysis Financial engineering Management of financial services Investment Management Management Control Systems Project Planning, Analysis and Management	<b>Group B: Finance</b> Strategic Cost Management International Financial Management Behavioral Finance Corporate Governance
<b>Group C: Information Technology &amp; Operations Management</b> Mobile Commerce Product Innovation in Technology Business Business Process Re-Engineering Systems Analysis and Design Enterprise Resource Planning Management Information Systems	<b>Group C: Information Technology and Operations Management</b> Knowledge Management Management of Technology Business Intelligence Total Quality Management
<b>Group D: Marketing</b> Advertising and Consumer Behavior Global Marketing Management Marketing Research and Product Management Internet Marketing and Retail Management Global Supply Chain Management Industrial and Rural Marketing	<b>Group D: Marketing</b> Marketing of Services Workshop on Foreign Trade Documentation and Trade Finance Customer Relationship Management and Sales Management Application of Accounting and Finance in Marketing
<b>Group E: Human Resource Management</b> Labour Legislation-I Strategic Human Resource Management Performance and Compensation Management Organisation Development Workshop on Training and Development Comparative Industrial Relations	<b>Group E: Human Resource Management</b> Human Resource Information System Personal Effectiveness and Leadership Workshop on Management of Discipline and Disciplinary Proceedings Labour Legislation-II

**SAP THRUST AREAS:** Emotional Intelligence, Effective Leadership Style and Human Resource Valuation, Corporate Valuation and Corporate Reporting, Supply Chain Management and International Business.

**PLACEMENTS:** The Summer Internship Season for 2015 – 16 witnessed participation from a plethora of reputed companies that extended internship offers to 86 students across various domains, profiles and geographies. HDFC Bank, Kotak Mahindra Bank, OYO Rooms, uT rade, Volvo Eicher were some of the prominent recruiters. The final placements for the batch 2014-16 concluded on a jubilant note as a total of 113 students received job offers from companies in over seven sectors in functions of their choice. Aircel, Clicklabs, Café Coffee Day, Dell, E-Clerx, Finxera, General Motors, Futures First, HDFC, Heidelberg, ICICI, Infosys, Kotak Mahindra Bank, KPMG Global, Pantaloons, Religare Finvest, SBI Life Insurance, The Smart Cube, Trident, Volvo Eicher and Wipro. The maximum package 21 lacs was offered to the students and the average package was 8.25 lacs.

**ALUMNI RELATIONS:** In the academic year 2016-2017 University Business School welcomed several distinguished corporate personalities and alumni from various batches for corporate interactions with the students. The top executives from various organisations like Religare, Vodafone, DHFL, IBM, Eidelweiss, Korn Ferry, ITC Hotels, Reliance Industries Limited etc. interacted with the students.

## UNIVERSITY INSTITUTE OF APPLIED MANAGEMENT SCIENCES

### ABOUT THE INSTITUTE

UIAMS offers management programmes in sectoral areas and streams so as to fulfill industry needs and requirements for specialized managerial skills.

#### Salient Features of the Institute :

- UIAMS is in furtherance of University's vision of developing emerging areas as nodal centres of Excellence in applied fields.
- Cardinal Principle of Delivery System : 70:30 ratio of Management and Sectoral inputs.
- Delivery and Evaluation at UIAMS is a mix of Theory & Practice.
- Association with Industry through invited talks, guest faculty, evaluation of projects.
- Institute is inter-disciplinary drawing from rich reservoir of talent available not only from University Business School (UBS) but also sectoral Departments like University Institute of Pharmaceutical Sciences (UIPS), Dr. Harvansh Singh Judge Institute of Dental Sciences & Hospital, University Institute of Engineering & Technology (UIET), Department of Economics, Department of Statistics, Department of Computer Sciences and Dr.S.S.B. University Institute of Chemical Engineering & Technology.

### FACULTY

Designation	Name	Field of Research Specialization
Professors	Sanjeev Sharma <b>(Director)</b>	Strategic Management, Marketing Management, International Business
	Manoj Anand	Corporate Finance & Reporting, Project Finance, Investment Banking.
Associate Professors	Upasna Joshi Sethi	Human Resource Management, Organisational Behaviour
	Pardeep Kumar Sharma	Quantative Techniques, Economic Development, Poverty & Inequality
Assistant Professors	Nishi Sharma	Financial Management, Investment Analysis
	Monika Aggarwal	Banking, Entrepreneurship, Finance & Accounting
	Anupreet Kaur Mavi	Development Economics, Labour Economics
	Arunachal Khosla	Organizational Culture (OB & HRM)
	Nidhi Gautam	Data Communication, Wireless Sensor Networks, Wireless Communication
	Jagandeep Singh	Marketing Management, Strategic Management
	Manu Sharma	Mergers & Acquisitions, Private Equity, Corporate Valuation and Financial Derivatives
	Manjushri Sharma	Health Economics
	Ajay Kumar Dogra	Hospital, Pharmaceutical Management
	Aman Khera	Law & Management (HR)
Rachita Sambyal	IT & Telecom Management (Major Marketing)	
Naveen Kumar	Infrastructural Management (Major Finance)	
Harsh Tuli	International Business, Marketing	

**COURSES OFFERED (SEMESTER SYSTEM)**

Course	Seats	Duration	Eligibility*	Admission Criteria
MBA (Retail Management)	45+5NRI	2 Years	Passed one of the following examinations from a recognized University:	Based on MET Calculatuion of Merit: MET: 85% Group Discussion: 7.5% Personal Interview: 7.5 %
MBA (Banking & Insurance Management)	45+5NRI	2 Years	A Bachelor's or Master's Degree in any discipline of Panjab University or of any other recognized University as equivalent thereto with atleast 50% marks in aggregate. OR Pass in final examination conducted by the Institute of Chartered Accountants of India or England/the Institute of Cost and Works Accountants of India or England/ Institute of Company Secretaries of India. OR AMIE Examination with 50% marks or more after having passed the diploma examinations with 60% marks or above & have atleast 5 years research/teaching or professional experience.	
MBA (I.T.& Telecommunic-ations Management)	22+3NRI	2 Years	Bachelor's dsegree in Engineering/ Technology, i.e. B.E./B.Tech. (in any Branch) with minimum 50% marks in the aggregate.	Based on MET Calculatuion of Merit: MET: 85%
MBA (Infrastructural Management)	22+3NRI	2 Years	OR Bachelor's Degree in any Science subject with Physics and/or Mathematics with minimum 50% marks in the aggregate. OR Bachelor's in Computer Application (BCA) of Panjab University or of any other University recognized by the Panjab University as equivalent thereto with atleast 50% marks in the aggregate. OR AMIE Examination with 50% marks or more after having passed the diploma examinations with 60% marks or above and have atleast 5 years research/ teaching or professional experience	Group Discussion: 7.5% Personal Interview: 7.5 %
MBA (Pharmaceutical Management)	22+3NRI	2 Years	Bachelor's degree in Pharmacy with minimum 50% marks in the aggregate. OR M.B.B.S. with minimum 50% marks OR Bachelor's Degree in any Science subject with 50% marks in the aggregate and Personal Interview: 7.5 % Diploma in Pharmacy with minimum 50% marks.	Based on MET Calculatuion of Merit: MET: 85% Group Discussion: 7.5% Personal Interview: 7.5 %
MBA (Hospital Management)	22+3NRI	2 Years	MBBS/BDS/BAMS/BHMS/B.Pharmacy /B.Sc.(Nursing)/Bachelor of Physiotherapy (BPT) of Panjab University or a degree of any other University which has been recognized by the Syndicate as equivalent thereto with not less than 50% marks in the aggregate.	

\*5% Concession is admissible in eligibility marks to SC/ST/BC/PwD Candidates.

Candidates appearing in the Final Degree Examination are eligible to apply and can take the test provisionally.

**TITLES OF SYLLABI:** Detailed syllabi available at <http://puchd.ac.in/syllabus.php>.

<b>Semester-I</b> (Common To all Sectoral Branches)	<b>Semester-II</b>
Principles and Practices of Management Managerial Economics Accounting for Management Business Statistics Organizational Behaviour Legal and Ethical Aspects of Business Workshop on Information Technology and Systems Workshop on Soft Skills	Business Environment Financial Management Principles of Marketing Human Resource Management Workshop on Management Information Systems Seminar on Research Methodology Summer Training and Viva-Voce* Comprehensive Viva-Voce**

In second semester, every student has to study two papers of the sectoral stream in which he has been admitted.

#### **Sectoral Subjects - Retail Management**

RM – 1: Introduction to Retailing

RM – 2: Product and Brand Management

#### **Sectoral Subjects - Banking & Insurance Management**

B&I-1: Principles and Practices of Banking

B&I-2: Principles of Insurance

#### **Sectoral Subjects – I.T. & Telecommunications Management**

IT&T-1: Introduction to Information Technology and Telecommunication Management

IT & T -2: Data Communication and Computer Networks

#### **Sectoral Subjects – Infrastructural Management**

IM – 1: Introduction to Infrastructural Management

IM – 2: Regulatory Framework of Infrastructural Management

#### **Sectoral Subjects – Pharmaceutical Management**

PM – 1: Industrial Pharmacy and Pharmaceutical Technology

PM – 2: Quality Assurance and Inventory Management

#### **Sectoral Subjects – Hospital Management**

HM-1: Introduction to Epidemiology and Bio-Statistics

HM-2: Community Health and Management of National Health Programmes

\*at the end of the examination of 2nd semester, the students will undergo compulsory summer training for a period of 6-8 weeks. Every student will submit the summer training report within two weeks from the start of teaching for 3rd semester.

\*\*comprehensive viva-voce of 2nd semester would be based on papers taught in 1st and 2nd semester.

<b>Semester-III</b>	<b>Semester-IV</b>
1. Project Planning and Analysis 2. Operations Research and Total Quality Management. Student has to select one stream of functional specialisation and study 4 papers from the chosen specialisation: <b>3. Functional Specialization :</b> 4 papers from the chosen functional area: <b>Group–A: Marketing</b> a) Marketing Research and Consumer Behaviour b) Advertising and Sales Management c) International Marketing d) Internet Marketing <b>Group–B: Finance</b> a) Investment Analysis b) Strategic Cost Management	1. Strategic Management 2. Seminar on Corporate Governance 3. Workshop on Developing Entrepreneurial Skills 4. Operations Research and Total Quality Management 5. Research Project* 6. Comprehensive Viva-Voce** 7. Student has to select one stream of functional specialisation and study 2 papers from the chosen specialisation <b>Group–A: Marketing</b> a) Industrial and Rural Marketing b) Integrated Marketing Communications <b>Group–B: Finance</b> a) International Financial Management b) Management of Financial Services

c) Financial Engineering and its Applications d) Mergers, Acquisitions and Corporate Restructuring	<b>Group-C: Human Resource Management</b> a) Industrial Relations and Labour Welfare
<b>Group-C: Human Resource Management</b> a) International Human Resource Management b) Organizational Development c) Labour Laws d) Performance Management	b) Training and Development <b>Group-D: Operations Management</b> a) Enterprise Resource Planning b) Productivity Management
<b>Group-D: Operations Management</b> a) Supply Chain Management b) Advanced Production Management c) Business Process Re-Engineering d) Management of Technology and Innovation	
4. In Third semester, every student has to study three papers of the sectoral stream in which he/she has been admitted.	8. In Fourth semester, every student has to study three papers of the sectoral stream in which he/she has been admitted.
<b>Sectoral Subjects-Retail Management</b> RM-3: Customer Relationship Management RM-4: Franchising Management RM-5: Visual Merchandising	<b>Sectoral Subjects-Retail Management</b> RM-6: Advanced Supply Chain Management RM-7: Marketing of Services RM-8: Marketing Strategies and Management
<b>Sectoral Subjects-Banking &amp; Insurance Management</b> B&I-3: International Banking and E-Commerce B&I-4: Management of Banking Service Operations B&I-5: Life and General Insurance	<b>Sectoral Subjects-Banking &amp; Insurance Management</b> B&I-6: Regulatory Framework of Banking and Insurance B&I-7: Marketing of Financial Services B&I-8: Risk Management
<b>Sectoral Subjects-I.T. &amp; Telecommunications Management</b> IT&T-3: Information Technology Policies and E-Governance IT&T-4: VB .Net With UML IT&T-5: Oracle E-Business	<b>Sectoral Subjects-I.T. &amp; Telecommunications Management</b> IT&T-6: Wireless Technologies and Convergence IT&T-7: Project Management and Change Management IT&T-8: Mobile Communications <b>Sectoral Subjects-Infrastructural Management</b>
<b>Sectoral Subjects-Infrastructural Management</b> IM-3: Infrastructure Project Delivery, Managing Contracts and Negotiations IM-4: Financing of Infrastructural Projects IM-5: Public Private Participation In Infrastructure Sectors	IM-6: Environmental Impact Assessment and Sustainable Development IM-7: Emerging Trends in Infrastructural Management IM-8: Urban, Rural and Social Infrastructure Development and Financing <b>Sectoral Subjects-Pharmaceutical Management</b>
<b>Sectoral Subjects-Pharmaceutical Management</b> PM-3: Medical Pharmacology PM-4: Pharmaceutical Marketing PM-5: Brand Management	PM-6: Contemporary Issues in Pharmaceutical Management PM-7: Advanced Supply Chain Management PM-8: Patents and DRA
<b>Sectoral Subjects-Hospital Management</b> HM-3: Hospital Planning and Organisation HM-4: Management of Clinical and Super Specialty Services in Hospitals HM-5: Management of Support Services in Hospitals	<b>Sectoral Subjects-Hospital Management</b> HM-6: Health and Hospital Information Management HM-7: Health Insurance HM-8: Legal Aspects of Hospital Management
* Research project will start from 3rd semester. However, marks for this project will be counted in the 4th semester only. ** Comprehensive viva-voce in 4th semester will be based on papers taught in 3rd and 4th semester.	

**THRUST AREAS :** The sectoral management courses at UIAMS have been so designed to train socially responsible, ethically oriented management professionals. The programmes are a unique blend of strategic thinking and pragmatism coupled with industry orientation. UIAMS has the mandate to undertake teaching and research in sectoral domains of industrial activity.

**PLACEMENTS:** UIAMS has an active placement cell, managed by full time training and placement officer (TPO). There has been a tremendous response from the reputed organisations for the management graduates of UIAMS. The focus of the placement team has been to nurture soft skills so as to enhance their employability quotient.

**ALUMNI RELATIONS:** Alumni of UIAMS has been in constant touch with its alma mater. UIAMS has been holding its annual alumni meet, which is well attended. Alumni are also kept abreast with the latest developments of UIAMS, besides seeking their support for the placement activities.

## UNIVERSITY INSTITUTE OF HOTEL AND TOURISM MANAGEMENT (UIHTM)

### ABOUT THE INSTITUTE

The University Institute of Hotel and Tourism Management (UIHTM) is an upcoming premier institute of Panjab University, which is offering education, training, and consultancy in the field of hospitality, tourism, travel and allied sectors. Looking in to the demands of the Indian and global economy, UIHTM's programmes offer specialization for learners to enable them to acquire the right skill set with ample flexibility to adapt to employer organization's needs.

### FACULTY

Designation	Name	Field of Research Specialization
Associate Professor	Prashant Kumar Gautam <b>(Director)</b>	Destination Management
Assistant Professors	Anish Slath	Hospitality Sales and Marketing
	Arun Singh Thakur	Special Interest Tourism
	Jaswinder Kumar Sharma	Sustainable Tourism
	Jaswinder Singh	Food Production
Assistant Professors (ad hoc)	Neeraj Aggrawal	Food and Beverage Service
	Gaurav Kashyap	Gastronomy and food science
	Abhishek Ghai	Food and Beverage Service - Bar Operations
	Lipika Guliani	Finance and Accounting
	Manoj Semwal	Hotel Housekeeping
	Amit Katoch	Tour Operations

### COURSES OFFERED (SEMESTER SYSTEM)

Course	Seats	Duration	Eligibility *	Admission Criteria
Bachelor of Hotel Management and Catering Technology (BHMCT)	60+6NRI	4 Years	10+2 with not less than 50% marks in the aggregate and English as one of the Compulsory Subjects.	Based on PU Tourism and Hospitality Aptitude Test (PUTHAT)
Bachelor of Tourism and Travel Management (BTTM)	30+3NRI	4 Years	10+2 with not less than 50% marks in the aggregate and English as one of the Compulsory Subjects.	Based on PU Tourism and Hospitality Aptitude Test (PUTHAT)

\*5% Concession is admissible in eligibility marks to SC/ST/BC/PwD Candidates

**TITLES OF SYLLABI:** Detailed syllabi available at <http://puchd.ac.in/syllabus.php>.

### BACHELOR OF HOTEL MANAGEMENT AND CATERING TECHNOLOGY (BHMCT)

Semester-I		Semester-II	
	Discipline Core (Theory)		Discipline Core (Theory)
BHM-111	Foundation Course in Food Production	BHM-121	Foundation Course in Food Production
BHM-112	Foundation Course in Food & Beverage Service	BHM-122	Foundation Course in Food & Beverage Service

BHM-113 Foundation Course in Front Office	BHM-123 Foundation Course in Front Office
BHM-114 Foundation Course in Accommodation Operations	BHM-124 Foundation Course in Accommodation Operations
Discipline Electives choose any two	Discipline Electives choose any two
BHM-115 Principles of Food Science	BHM-125 Nutrition
BHM-116 Application of Computers	BHM-126 Basics of Tourism
BHM-117 Executive communication	BHM-127 Accounting for Managers
BHM-118 Introduction to Event Management	BHM-128 Environment and Road Safety Education
Discipline Core (Practical)	Discipline Core (Practical)
BHM-101 Foundation Course in Food Production	BHM-106 Foundation Course in Food Production
BHM-102 Foundation Course in Food & Beverage Service	BHM-107 Foundation Course in Food & Beverage Service
BHM-103 Foundation Course in Front Office	BHM-108 Foundation Course in Front Office
BHM-104 Foundation Course in Accommodation Operations	BHM-109 Foundation Course in Accommodation Operations
BHM-105 Leadership Development Camp	<b>Semester-III</b>
Discipline Core	BHM 231 Industrial Exposure Training
<b>Semester-IV</b>	<b>Semester-V</b>
Discipline Core	Discipline Core
BHM-241 Food Production Operations	BHM-351 Advanced Food Production Operations
BHM-242 Food & Beverage Operations	BHM-352 Advanced Food & Beverage Operation
BHM-243 Front Office Operations	BHM-353 Accommodation Management
BHM-244 Accommodation Operations	
Discipline Elective choose any two	Discipline Electives choose any three
BHM-245 Food & Beverage Controls	BHM-354 Spa Management
BHM-246 Food Safety & Quality	BHM-355 Food & Beverage Management
BHM-247 Components of Tourism	BHM-356 Financial Management
BHM-248 Bar and Beverage operations	BHM-357 Global Tourism
Workshop on Research Methodology	BHM-358 Business Ethics
Discipline Core (Practical)	Discipline Core (Practical)
BHM -201 Food Production Operations	BHM-301 Advanced Food Production Operations
BHM -202 Food & Beverage Operations	BHM-302 Advanced Food & Beverage Operation
BHM -203 Front Office Operations	BHM-303 Accommodation Management
BHM -204 Accommodation Operations	
<b>Semester-VI</b>	<b>Semester-VII</b>
Discipline Core	Theory (Specialization Core)
BHM-361 Advanced Food Production Operations	Group 1. Food and Beverage Division Management
BHM-362 Advanced Food & Beverage Operation	BHM-471 Advanced Food Production Operations Management
BHM-363 Front Office Management	BHM-472 Advanced Food & Beverage Operation Management
Discipline Electives Choose any three	Group 2. Rooms Division Management (Specialization Core)
BHM-364 Aviation and Cruise line operations Management	BHM-473 Advanced Front Office Management
BHM-365 Entrepreneurship Development	BHM-474 Advanced Accommodation Management
BHM-366 Principles of Management	Compulsory Subjects (Discipline Core)
BHM-367 Personality Development and Soft Skills	BHM-475 Project on Market feasibility and financial viability for hotels/restaurants
BHM-368 Food Photography and Food Journalism	Specialization Electives
Discipline Core ( Practical)	BHM-476 Strategic Management



BHM -304 Advanced Food Production Operations BHM -305 Advanced Food & Beverage Operation BHM -306 Front Office Management  BHM -307 Research Project (Viva Voce)	BHM-477 Principles of Marketing BHM-478 Facility Planning Practical (Specialization Core) Group 1. Food and Beverage Division Management BHM -401 Advanced Food Production Operations BHM -402 Advanced Food & Beverage Operation Group 2. Rooms Division Management BHM -403 Front Office Management BHM -404 Accommodation Management
<b>SEMESTER-VIII</b>	
BHM 481 Specialized Hospitality Training BHM 482 Project Report on emerging trends in hospitality Industry	
<b>BACHELOR OF TOURISM AND TRAVEL MANAGEMENT (B.T.T.M.)</b>	
<b>Semester -I</b>	<b>Semester-II</b>
Core BTM 111 Tourism: Concept, Status and Trends BTM 112 Geography for Tourism BTM 113 Indian Society and Culture Choose any one: BTM 114 Computer Operations BTM 115 Introduction to Hospitality Industry Choose any two: BTM 116 Workshop on Personality Development BTM 117 Workshop on Executive Communication for Tourism Industry BTM 118 Workshop on Physical Grooming	Core BTM 121 Components of Tourism BTM 122 Tourism Product – Regional BTM 123 Field Trip Report Choose any two: BTM 124 Environment and Road Safety Education BTM 125 Tourism Products of India: Art and Architecture BTM 126 Tourism Product of India: Nature Based BTM 127 Introduction to Event Management Choose any one: BTM 128 Workshop on Hotel Operations BTM 129 Workshop on English Language Skills for Tourism Industry
<b>Semester -III</b>	<b>Semester -IV</b>
Core BTM 231 Travel Agency and Tour Operations BTM 232 Principles of Management  BTM 233 Outdoor Learning Programme Choose any three: BTM 234 Tourism Impacts BTM 235 Special Interest Tourism BTM 236 Environment and Tourism BTM 237 Tourism Product of India: Cultural Heritage	Core BTM 241 Introduction to Statistics BTM 242 Policy and Planning for Tourism Development BTM 243 On-the-job Training Report and Viva Choose any three: BTM 244 Itinerary Preparation BTM 245 Tour Package Design BTM 246 Essential of Tour Guiding BTM 247 Tourism Transportation
<b>Semester-V</b>	<b>Semester -VI</b>
Core BTM 351 Basics of Tourism Research  BTM 352 Tourism Marketing BTM 353 Event Management Engagement Choose any three: BTM 354 Tourism Business Environment BTM 355 Human Resource Management BTM 356 Introduction to Air Travel BTM 357 Business Tourism	Core BTM 361 Volunteering and Societal Understanding Programme BTM 362 Tourism Business Economics BTM 363 Airline Service and In-flight Facilities  Specialization-1 Core paper Specialization-1 elective paper 1 Specialization-1 elective paper 2

Semester -VII	Semester-VIII
Core BTM 471 Accounting for Managers BTM 472 Tourism Promotion BTM 473 Research Project Report  Specialization-2 Core paper Specialization-2 elective paper 1  Specialization-2 elective paper 2 Specialization Core and Electives	Core BTM 481 Comprehensive Viva Voce BTM 482 Internship Report BTM 483# Workshop: Computerized Reservation System BTM 484# Workshop: Indian Tourism Destinations BTM 485# Workshop: International Tourism Destinations
<b>SPECIALIZATION-A (Travel Trade)</b>	<b>SPECIALISATION-B (Outbound Tourism)</b>
SC BTM TT1 Ticketing & Transportation  SE BTM TT2 Trade Related Issues and Frontier Formalities SE BTM TT3 Adventure Tourism SE BTM TT4 Rural and Community Based Tourism	SC BTM OT1 Regional Dimensions of International Tourism SE BTM OT2 Outbound Tour Operations SE BTM OT3 Tourism Product: Europe and America SE BTM OT4 Tourism Product: Asia, Middle East and Pacific Area
<b>SPECIALIZATION-C (Aviation and Hospitality)</b>	<b>SPECIALIZATION-D (Tourism Marketing)</b>
SC BTM AH1 Room Division Management SE BTM AH2 Basics of F&B Operations SE BTM AH3 Airport Facility Management SE BTM AH4 Air Transport & Cargo Management	SC BTM TM1 Service Marketing SE BTM TM2 Relationship Marketing SE BTM TM3 Sales and Distribution Management SE BTM TM4 E-Marketing

**THRUST AREAS:** Food & Service Production, Food and Beverage Service , Accommodation Operation, Tour Operations, MICE

**PLACEMENTS:** UIHTM provides training and placements to the students. There was 100% placement of students of the 2015-2016 batch The students were placed in all leading hotel chains, cruise line companies and tour operator companies like Oberoi, Marriott, Taj, Jaypee Hotels, Hyatt, Cox and Kings, Thomas Cook etc.

**ALUMNI RELATIONS:** The institute invites its former students on a regular basis to interact with the students

### III. FACULTY OF DESIGN AND FINE ARTS DEPARTMENT OF ART HISTORY & VISUAL ARTS

#### ABOUT THE DEPARTMENT

The Department of Art History and Visual Arts was established in 1962. The Department has made significant contributions in the field of art history in a regular academic curriculum. Teaching in the department is carried out through audio visual materials like slides, film shows, demonstration by artists etc. In the library of the department, there are more than 15,000 slides of which the most important part is that of the slides acquired from the American Committee of South Asian Art (ACSAA), U.S.A.

The Museum of Fine Arts was opened in 1968. The Museum showcases a collection of contemporary Indian Art of important painters, sculptors and printmakers. A regular programme of exhibitions along with demonstrative workshops and lectures have made the museum an important centre of art in the region.

#### FACULTY

Designation	Name	Field of Research Specialization
Prof. Emeritus	B.N. Goswamy	Indian Painting
Assistant Professors	Tirthankar Bhattacharya	Indian Iconography, Aesthetics and Art Appreciation
	Jagtej Kaur Grewal	Indian Painting
	<b>(Chairperson)</b>	

**COURSES OFFERED (SEMESTER SYSTEM)**

Course	Seats	Duration	Eligibility*	Admission criteria
M.A. (History of Art)	25+3NRI	2 Years	Passed one of the following examinations from a recognized University: A Bachelor's Degree obtaining at least 45% marks in the History of Art or 50% in aggregate. OR B.A.(Hons) in History of Arts or B.Sc. (Hons.) Course. OR Master's examination in any subject. OR B.A. (Pass) examination with 45% marks in any of the following subjects :- Art, Music, Psychology, Philosophy, Sociology, Sanskrit, History, English, Ancient Indian History, Culture & Archaeology, Home Science, any one of the Modern Indian Languages/ Classical languages. OR B.A. (Pass)/B.Sc.(Home Science) examination in second division with at least 50% marks in the aggregate; OR B.F.A./ Bachelor of Architecture examination with at least 45% marks in the aggregate;	Based on Aptitude Test Aptitude Test:40%** Academic : 60% (10 <sup>th</sup> Class :10%, 10+2 Class :10%, Bachelor's/Master's degree : 40%)
Ph.D.	4	3-5 Years	See M.Phil./Ph.D Prospectus 2017	
*5% Concession is admissible in eligibility marks to SC/ST/BC/PwD Candidates **Aptitude test will be of one hour duration based on Fine Arts/History of Art syllabus at the undergraduate level of P.U.				

**TITLE OF SYLLABI:** (Detailed syllabi available at <http://puchd.ac.in/syllabus.php>)

**M.A. (History of Art)**

Semester-I		Semester-II	
Paper-1	History of Indian Sculpture and Architecture from the Earliest Times to ca.600 A.D.	Paper-5	History of Indian Sculpture and Architecture from 1st century A.D. to 6th century A.D.
Paper-2	History of European Art from the Pre-historic to the Byzantine period.	Paper-6	History of European Art from the Early Medieval Period till Late Gothic Period ca.1400 A.D.
Paper-3	History of Indian Painting from the Pre-historic period to the 16 <sup>th</sup> century A.D.	Paper-7	History of Indian Painting from ca.1550 A.D. to ca. 1850 A.D.
Paper-4	Principles and Sources of Art.	Paper-8	Basic Religious Systems and Iconographic Concepts.
Semester-III		Semester-IV	
Paper-9	History of Indian Architecture and Sculpture from ca.700 A.D. to ca.1300 A.D.	Paper-13	History of Indian Architecture from ca.1300 A.D. to ca.1900 A.D.
Paper-10	History of European Art from the Renaissance to ca.1700 A.D.	Paper-14	History of European Art from ca.1900 A.D. to ca.1950 A.D.
Paper-11	History of European Art from ca.1750 A.D. to ca.1900 A.D.	Paper-15	History of Indian Art from ca.1850 A.D. to ca.1950 A.D.
Paper-12	Art of South East Asia.	Paper-16	Comparative Approaches to Art.

**THRUST AREAS:** History of Indian Art: Traditional, Contemporary and Architecture; Iconography

**PLACEMENTS:** The students who complete their MA in History of Art have found placements in the teaching profession as Lecturers in Universities and Colleges, as teachers in Government and private schools, and as instructors in private coaching institutions. The students have also been successfully placed in firms that deal with the documentation of Art Works, in Art Galleries and have been writing for newspapers, journals and have gone on to get admission in Universities overseas for further studies and research.

**ALUMNI RELATIONS:** An Alumni Association of the department was founded in the year 2011 with the membership growing over the years.

## DEPARTMENT OF INDIAN THEATRE

### ABOUT THE DEPARTMENT

The Department was set up in 1972 and has earned a place of pride on the national theatre scene during 45 years of its existence, on the Panjab University Campus. Theatre personalities from all over India and foreign countries have been visiting the Department for interaction with the faculty and students. The Department has produced more than 87 productions ranging from classical to modern, traditional to experimental plays. The Alumni of this Department have made their name at the highest level in the fields of Theatre, T.V., films and other cultural organizations. The Department offers merit scholarship to students. The Department has its own Library, A Balwant Gargi Open-air-Theatre and a Studio Theatre for overall training of the students, in the subject of theatre and directorial process. The Department also produces an Annual Production for an invited audience. The Course provides full training in the theoretical and practical aspects of theatre, acting, movement, voice speech, singing, improvisation, theatre-games, yoga, mime, text-study, character-building, stage-craft along with its chiseling of the imagination. Plays from India and Western dramatic literature and the history of theatre are dealt with in considerable detail. Theory and practical lessons in Stage-craft that include make-up, mask-making, lighting, set and costume designing are an important part of the training. The knowledge of regional theatre-forms and their creative application in the modern context is emphasized.

### FACULTY

#### Designation

Assistant Professor (Re-Employed)  
Assistant Professor

#### Name

Shveta Mahendra  
Navdeep Kaur  
**(Chairperson)**  
Bhupinder Singh

Associate Professor  
(on Temporary Basis)

### COURSES OFFERED (SEMESTER SYSTEM)

Course	Seats	Duration	Eligibility*	Admission Criteria**
M.A.	23 +2 NRI	2 Years	Bachelor's Degree from Panjab University OR Any other degree recognized by the Panjab University as equivalent thereto.	Based on Written & Performance Test
Ph.D.	7	3-6 Years	See M.Phil / Ph.D. Prospectus 2017	

\* 5% Concession is admissible in eligibility marks to SC/ST/BC/PwD Candidates

\*\*i) **Objective Type Written Test** conducted by the Department: 30 Marks

(Only those candidates who secure at least 50% marks in the Objective Type Written Test will be allowed to appear in the Specially Designed Performance Test).

ii) **Specially Designed Performance Test:** 70 Marks

(Only those candidates who qualify Specially Designed Performance Test by scoring at least 50% marks will be eligible)

**TITLES OF SYLLABI:** Detailed syllabi available at <http://puchd.ac.in/syllabus.php>.

### M.A.

Semester-I		Semester-II	
Paper-1	History of Theatre	Paper-1	Dramatic Literature
Paper-2	Acting Theory	Paper-2	Theatre Architecture
Paper-3	Acting Practical	Paper-3	Directorial Processes
Paper-4	Stage Craft (Practical)	Paper-4	Viva Voce
Semester-III		Semester-IV	
Paper-1	History of Theatre	Paper-1	Dramatic Literature
Paper-2	Acting Theory	Paper-2	Theatre Architecture
Paper-3	Acting Practical	Paper-3	Directorial Processes
Paper-4	Stage Craft (Practical)	Paper-4	Viva Voce

**THRUST AREAS:** Integrate artistic training with human values in an environment results in the thrust areas of exploration, artistic curiosity, experimentation, risk-taking, creative collaboration and innovative projects across disciplines.

**ALUMNI RELATIONS:** Department has produced many illustrious theatre and film personalities. We encourage and support regular interactions with the Alumni of the department.

## DEPARTMENT OF MUSIC

### ABOUT THE DEPARTMENT

The department of Music was established in 1987. It provides intensive and full time training in practical and theoretical music in Vocal and Instrumental (Sitar) at M.A. & M.Phil level. It also provides Music hobby classes in the evening. The department offers facilities of departmental library and infrastructure to regular research scholars for their research leading to Ph.D degree in various aspects of Music and Musicology. The department offer facilities for inter disciplinary research also. Ph.D course work is also conducted in the department. The department organizes workshops and seminars to expose the students to various innovations, new trends and emerging areas in the respective fields. Students get opportunities to participate in public performances and conferences at regional and national levels. Students are given opportunity to perform in the University Functions namely Republic day celebrations, Independence Day celebration and Convocation etc.

### FACULTY

Designation	Name	Field of Research Specialization
Professor (Re-employed)	Arvind Kumar Sharma	Music (Vocal)
<b>Chairperson (Acting)</b>	Dean of University Instruction	
Professors	Pankaj Mala Sharma ( <b>Coordinator</b> )	Music (Instrumental)
	Saroj Ghosh	Music (Instrumental)
	Neera Grover	Music (Vocal)
Associate Professor	Neelam Paul	Music (Vocal)

### COURSES OFFERED (Semester System)

Course	Seats	Duration	Eligibility*	Admission Criteria
M.A (Vocal)	17+2NRI	2 Years	B.A. with Music or teacher in Music in a recognized higher secondary school or affiliated college	Based on Aptitude Test Aptitude Test – 40% Academics – 60%
M.A. (Instrumental)	17+2NRI	2 Years	B.A. with Music or teacher in Music in a recognized higher secondary school or affiliated college	(10 <sup>th</sup> Class:10%, 10+2Class:10%, Bachelors':40%)
Certificate Course	15	1 Year	Minimum +2	
Hobby Classes (Vocal/Instrumental) Instruments offered: Guitar, Sitar, Harmonium, Tabla		Minimum 03 months	Students of University Department/ Colleges, University Employees and their wards with aptitude for music.	
M. Phil (Vocal & Instrumental)	15	1 Year	See M.Phil/Ph.D Prospectus-2017	
Ph.D	6	3-6 Years	See M.Phil/Ph.D Prospectus-2017	
*5% Concession is admissible in eligibility marks to SC/ST/BC/PwD Candidates				

**TITLES OF SYLLABI:** Detailed syllabi available at <http://puchd.ac.in/syllabus.php>.

### M.A. MUSIC (VOCAL & INSTRUMENTAL)

Semester-I		Semester-II	
Paper-1	Theoretical Survey, Principles of Aesthetics and Critical study of Ragas	Paper-1	Theoretical Survey, Principles of Aesthetics and Critical study of Ragas
Paper-2	History of Indian Music	Paper-2	History of Indian Music
Paper-3	Stage Performance (Practical)	Paper-3	Stage Performance (Practical)
Paper-4	Viva-Voce (Practical)	Paper-4	Viva-Voce (Practical)
Semester-III		Semester-IV	
Paper-1	Scientific study of Indian Music	Paper-1	Music Education and Study of Granthas
Paper-2	Study of Ragas and Talas	Paper-2	Information Technology and Principles of Stage Performance
Paper-3	Stage Performance (Practical)	Paper-3	Stage Performance (Practical)
Paper-4	Viva-Voce (Practical)	Paper-4	Viva-Voce (Practical)

**THRUST AREA:** Classical Music

**PLACEMENTS:** Department prepare the students in such a way they can be appointed for teaching in Universities, Colleges & other Institutions.

**ALUMNI RELATIONS:** Preparing the list of alumni of this Department.

#### IV. FACULTY OF EDUCATION

##### DEPARTMENT OF COMMUNITY EDUCATION AND DISABILITY STUDIES

###### ABOUT THE DEPARTMENT

The Department was established in the year 2007. It offers Master's course in Community Education and Development, Ph.D. (Community Education and Development) and B.Ed. Special Education (Learning Disability). The Admission in these courses is open to all the students from all streams.

###### FACULTY

Designation	Name	Field of Research Specialization
Associate Professors	Ashwani Kumar Sharma	International Politics with emphasis on Conflict Resolution, Community Education, Inclusive Education, Human Resource Development.
	Navleen Kaur	Community Education, Inclusive Education, Extension Education, Educational Psychology, Guidance and Counseling, Learning Disability.
	Anuradha Sharma (Chairperson)	Research Methodology, Education Psychology, Community Social Psychology, Learning Disability, Community Education, Inclusive Education.
	Dazy Zarabi	Community Education, Population and Sustainable Development Education, Gender Equality & Equity Adolescent Education, HIV/AIDS/Health Education.
Assistant Professor	Md. Saifur Rahman	Special Education, Inclusive Education, Research Methodology
	Nitin Raj	Special Education
Assistant Professors (Temporary)	Md. Taukir Alam	Special Education
	Md. Shamsad Alam	Special Education

###### COURSES OFFERED (SEMESTER SYSTEM)

Course	Seats	Duration	Eligibility*	Admission Criteria
M.A. (Community Education & Development)	25+3NRI	2 Years	Bachelor's Degree with 45% marks in any stream from a recognized University	Based on Merit
B.Ed. Special Education (Learning Disability)	30	2 Years	Bachelor's Degree with 50% marks in any discipline from a recognized University	Based on Merit
Ph.D.	6	3-6 Years	See M.Phil/Ph.D. Prospectus 2017	

\*5% Concession is admissible in eligibility marks to ST/SC/BC/PwD Candidates

**TITLES OF SYLLABI:** Detailed syllabi available at <http://puchd.ac.in/syllabus.php>.

###### M.A.

Semester-I		Semester-II	
Paper-1	Community Development and Organization	Paper-1	Community Social Psychology
Paper-2	Indian Social Structure	Paper-2	Urbanization and Slums
Paper-3	Empowerment of Community	Paper-3	Corporate Social Responsibility
Paper-4	Research Methodology	Paper-4	Human Resource Development and Training
	• Project work/Community work/ Field work.		• Project work/Community work/ Field work.

Semester-III	Semester-IV
Paper-1 Conflict Resolution Paper-2 Population and Health Education Paper-3 Community Counseling Paper-4 Education and Life Long Learning  • Project work/Community work/ Field work.	Paper-1 Rural Development Entrepreneurship Paper-2 Human Rights and Duties Paper-3 Panchayati Raj System in India Paper-4 Environmental Education and Disaster Management  • Project work/community work/ Field work.

**B.Ed.**

Semester - I (Theory Papers)	Semester - II (Theory Papers)
Paper-1 Human Growth & Development Paper-2 Contemporary India and Education  Paper-3 Introduction to Neuro Developmental Disabilities  Paper-4 Assessment and Identification of Needs Practicum – LD E1: Cross disability & Inclusion	Paper-1 Learning, Teaching and Assessment Paper-2 Part- (i) Pedagogy of Teaching Science Part- (ii) Pedagogy of Teaching Mathematics Part- (iii) Pedagogy of Teaching Social Science Paper-3 Part –(i) Pedagogy of Teaching Hindi Part –(ii) Pedagogy of Teaching Punjabi Part –(iii) Pedagogy of Teaching English Paper-4 Inclusive Education Paper-5 Curriculum Designing, Adaptation & valuation Practicum – LD E2: Disability Specialization
Semester – III (Theory Papers)	Semester-IV (Theory Papers)
Paper-1 Educational Intervention and Teaching Strategies Paper-2 Technology & Disability Paper-3 Psycho-Social and Family Issues Paper-4 Reading and reflecting on Texts Paper-5 Performing and Visual Arts Practicum -LD E2: Disability Specialization F1: Major Disability-LD (Internship)	Paper-1 Guidance & Counseling Paper-2 Management of Learning Disability Paper-3 Basic Research and Statistics  Practicum –LD E1: Cross disability & Inclusion F2: Other Disability (Internship) F3: Inclusive School (Internship)

**THRUST AREAS:** Development of Education System in India; Inclusive Education; Community Education; Empowerment of Community; Education for All; Gender Equity, Equality and Disparity; Community Counseling; Special Education and any other issue related with community and inclusive education.

**PLACEMENTS:** The Department has a Placement Cell which coordinates with the Central Placement Cell of the University. Many students opt for self-employment and spring up as successful Special Educators/Councilors.

**ALUMNI RELATIONS:** Since the 1<sup>st</sup> Session of department was completed in the year of 2009, we are in the process to organize an alumni meet soon.

## DEPARTMENT OF EDUCATION

### ABOUT THE DEPARTMENT

The Department of Education was started in 1963 with one M.Ed. course through regular mode. Subsequently M.Ed. (Evening) Course for in-service teachers (1969); M.A. (Education) (1979); M. Phil. (Education) (1979); M.Ed. (Guidance & Counselling) (1991) and M.Ed. (Educational Technology) (1991) were added. Currently only M.Ed. (General) and M.A. (Education) are running in the Department. The Department of Education is a Nodal Research Centre of Panjab University for conducting Ph.D. programme and Pre-Ph.D. course work in Education. The Department has been awarded Special Assistance Programme (DRS) by U.G.C. w.e.f. from 1-4-95: First phase: 1-4-95 to 31-3-2000, Second Phase: 1-4-2001 to 31-3-2006 and Third phase 1-4-2007 to 31-3-2012. Currently the Department has been awarded SAP (DSA) status with a grant of Rs. 75 lacs.

**FACULTY**

<b>Designation</b>	<b>Name</b>	<b>Field of Research Specialization</b>
Professor Emeritus	J. N. Joshi	Research Methods; Measurement & Evaluation
Professor Re-employed	Sukhwant Bajwa	Research; Guidance & Counselling
Professors	Raj Kumari Gupta	Exceptionality; Guidance & Counselling; Research Methods; Human Development
	Nandita Shukla Singh	Philosophical & Sociological Foundations of Education; Teacher Education; Human Rights & Value Education
	Latika Sharma (Chairperson)	Life Long Education; Philosophical, Sociological and Psychological Foundations; Education Administration; Teacher Education
	Vandana Mehra	Educational Technology; Curriculum Development; Research Methods; Teacher Education
	Kirandeep Singh	Guidance & Counselling w.r.t. Career Psychology & Organizational Psychology; Human Development
Associate Professors	Jatinder Grover	Quality aspects of Elementary; Secondary & Teacher Education; Technology Enhanced Education Systems
	Satvinderpal Kaur	Inclusive Education; Educational Sociology; Educational Psychology
Assistant Professor	Kuldeep Kaur	Educational Psychology; Special and Inclusive Education; Educational Statistics; Guidance & Counselling; Teaching of English/Pedagogy of Language Education

**COURSES OFFERED (SEMESTER SYSTEM)**

<b>Course</b>	<b>Seats</b>	<b>Duration</b>	<b>Eligibility*</b>	<b>Admission Criteria</b>
M.Ed. (General)	50	2 Years	Degree in Bachelor of Education/equivalent degree with 50% marks from a recognized University by AIU. OR B.A. B.Ed, B.Sc B.Ed. OR B.El.Ed. OR D.El. Ed with an undergraduate degree with 50% marks in each.	Based on Merit (Centralized admission)
M.A. (Education)	25+3NRI	2 Years	A) <b>For Indian Nationals:</b> Passed one of the following examinations from a recognized University: A Bachelor's Degree obtaining at least 45% marks in Education or 50% marks in the aggregate B.A. with (Hons) in Education or B.Sc.(Hons.) course. Master's Degree Examination in any other subject. OR Bachelor's degree in any stream with 50% marks with B.Ed from any recognized Indian university. OR The student who has studied Education/Philosophy/Psychology/Sociology/Public Administration/History/Economics/Geography/Political Science/Anthropology with 50% marks. B) <b>For International Students:</b> 50% marks or equivalent grade in graduate degree/equivalent degree in any discipline from Foreign University having certified by the Association of Indian Universities (AIU).	Based on Merit
Ph.D.	Subject to availability	3-6 Years	See M.Phil/ Ph. D. Prospectus 2017	
*5% Concession is admissible in eligibility marks to SC/ST/BC/PwD Candidates				



**TITLES OF SYLLABI:** Detailed syllabi available at <http://puchd.ac.in/syllabus.php>.

**M.Ed.(General)**

<b>Semester- I</b>		<b>Semester- II</b>	
Paper-1	Perspectives in Education -I	Paper-1	Process of Education-II
Paper-2	Learner and Learning Process-I	Paper-2	Psychology for Individual and Social Development-II
Paper-3	Educational Research and Statistics-I	Paper-3	Educational Research and Statistics-II
Paper-4	Teacher Education-I	Paper-4	Dissertation –II (Submission of Research Proposal)
Paper-5	History of Education-I	Paper-5	Self Development Skills-II (Writing CV & Interview skills)
Paper-6	Dissertation-I (Writing a synopsis)	Paper-6	Any one of the following
Paper-7	Self Development Skills-I (Academic/ Professional Writing & Communication Skills)		Pedagogy of Science Education-II
			Pedagogy of Social Science Education-II
			Pedagogy of Language Education-II
			Pedagogy of Mathematics Education-II
<b>Semester -III</b>		<b>Semester- IV</b>	
Paper-1	Guidance and Counseling-III	Paper-1	Education for sustainable Development & Global Peace-IV
Paper-2	Educational Technology and ICT-III	Paper-2	Field Attachment/ Internship-IV
Paper-3	Dissertation-III (Submission)	Paper-3	Dissertation-IV (Viva Voce)
Paper-4	Self Development Skills-III (e-skills)	Paper-4	Self Development Skills-IV (Yoga)
Paper-5&6	Any Two of The Following:	Paper-5&6	Any Two of the following
	Policy Planning and Financing of Education-III		Measurement, Assessment and Evaluation-IV
	Education for Differently-abled-III		Comparative Education-IV
	Curriculum Studies-III		Life Long Learning-IV
			Educational Administration and Management-IV

**M.A. (EDUCATION)**

<b>Semester-I</b>		<b>Semester-II</b>	
Paper-1	Philosophical and Sociological Foundations of Education-I	Paper-6	Philosophical and Sociological Foundations of Education-II
Paper-2	Educational Psychology-I	Paper-7	Educational Psychology-II
Paper-3	Educational Research & Statistics-I	Paper-8	Educational Research & Statistics-II
Paper-4&5	Opt Any Two of The Following	Paper-9&10	Opt Any Two of the following
A	Educational Measurement & Evaluation	A	Educational Measurement & Evaluation
B	Guidance & Counselling	B	Guidance & Counselling
C	Educational Technology	C	Educational Technology
D	Special Education	D	Special Education
E	Population Education and Environmental Education	E	Population Education and Environmental Education
F	Value Education & Human Rights Education	F	Value Education & Human Rights Education
G	Educational Administration & Management	G	Educational Administration & Management
H	Lifelong Education	H	Lifelong Education
<b>Semester-III</b>		<b>Semester-IV</b>	
Paper-11	History and Contemporary Issues of Indian Education-III	Paper-16	History and Contemporary Issues of Indian Education-IV
Paper-12	Curriculum Development-III	Paper-17	Curriculum Development-IV

Paper-13	Dissertation Proposal/ Synopsis	Paper-18	Dissertation Proposal/ Synopsis
Paper-14 & 15	<b>Opt Any Two of The Following:</b>	Paper-19 & 20	<b>Opt Any Two of the following</b>
A	Educational Measurement & Evaluation	A	Educational Measurement & Evaluation
B	Guidance & Counselling	B	Guidance & Counselling
C	Educational Technology	C	Educational Technology
D	Special Education	D	Special Education
E	Population Education and Environmental Education	E	Population Education and Environmental Education
F	Value Education & Human Rights Education	F	Value Education & Human Rights Education
G	Educational Administration & Management	G	Educational Administration & Management
H	Lifelong Education	H	Lifelong Education

**THRUST AREAS:** Education for Peace, Values & Sustainable development, Guidance & Counselling, Educational Technology, Measurement and Evaluation, Special and Inclusive Education, Environment Education, Educational Administration and Educational Research Tools.

**PLACEMENT:** The department maintains year wise data of student profiles. Resource Persons from different fields (Educational Institutes; Guidance/Employment Bureaus; Professionals from Hospitals/Psychiatry Department; etc.) are invited to deliver expert talks and interact with students. Students of Guidance and Counselling courses have a mandatory visit to Employment Exchange and Guidance and Counselling Bureau. Placement Cell of Department intends to increase interaction with experts working towards better placement opportunities for department students.

**ALUMNI RELATIONS :** The alumni is associated with Department through DEESA (Department of Education Ex-Students Association). It enrolls new members and organizes formal interactions.

## INSTITUTE OF EDUCATION TECHNOLOGY AND VOCATIONAL EDUCATION

### ABOUT THE INSTITUTE

The Institute started in July 2007 as a collaborative effort of three departments of Panjab University viz. Department of Education, Department of Lifelong Learning and Department of Community Education & Disability Studies. Presently, four year integrated B.A. B.Ed. course (approved by NCTE) is offered in the Institute with an intake of 50 students. This course is designed as per the latest guidelines of NCTE.

The objective of the Institute is to prepare prospective secondary school teachers, who are dedicated & committed to teaching profession, socially aware & concerned, morally upright and spiritually oriented. The focus of this four year course is to provide quality teacher education through a rigorous, consistent and comprehensive programme equipping with theoretical knowledge and practical pursuits.

### FACULTY

Designation	Name	Field of Research Specialization
Professor	Nandita Shukla Singh <b>(Chief Coordinator)</b>	Human Rights and Value Education, Teacher Education, Science Education, Philosophical Foundations of Education
Assistant Professors	Rekha Rani	Teaching of Mathematics, Research Methodology and Statistics, Special Education, Educational Technology
	Kanwalpreet Kaur	Educational Psychology, Educational Sociology, Educational Technology, Research Methodology and Statistics
	Kalpana Thakur	Educational Technology, Curriculum Development, Research Methodology and Statistics, Educational Psychology, Teaching of Sciences
	Amritpal Kaur	Educational Psychology, Teaching of Social Studies, Educational Technology, Guidance and Counselling
	Puja Ahuja	Science Education, Educational Technology, Mathematics Education, Educational Psychology

**COURSE OFFERED (SEMESTER SYSTEM)**

Course	Seats	Duration	Eligibility*	Admission criteria
B.A.B.Ed.	50	4 Years	Passed 10+2 examination with 50% marks from any recognized Board/ University.	Based on Aptitude Test** Academic (10+2 class):50% Entrance Test: 50%
*5% Concession is admissible in eligibility marks to SC/ST/BC/PwD Candidates **(Pass marks in Entrance Test is 40%)				

**TITLES OF THE SYLLABI:** (Detailed syllabus is available at: <http://puchd.ac.in/syllabus.php>)

Semester I	Semester II
<p>Compulsory Papers</p> <p>Paper-1 Education in Emerging Indian Society</p> <p>Paper-2 School Organization and Administration</p> <p>Paper-3 English</p> <p>Paper-4 Punjabi/HCP</p> <p>Paper-5,6 &amp; 7 Optional Papers: Choose any three: English (Elective), Punjabi (Elective), Hindi (Elective), Political Science, Economics, Sociology, Geography and History.</p> <p>General Practicum: (a) School related practicum (b) Life skills training (c) Tutorials</p>	<p>Compulsory Papers</p> <p>Paper-1 Philosophical and Sociological Foundations of Education</p> <p>Paper-2 Psychological Foundations of Education</p> <p>Paper-3 English</p> <p>Paper-4 Punjabi/HCP</p> <p>Paper-5,6 &amp; 7 Optional Papers: Choose any three: English (Elective), Punjabi (Elective), Hindi (Elective), Political Science, Economics, Sociology, Geography and History.</p> <p>General Practicum: (a) School related practicum (b) Life skills training (c) Tutorials</p>
Semester-III	Semester-IV
<p>Compulsory Papers:</p> <p>Paper-1 Human Development</p> <p>Paper-2 School-Community Participation</p> <p>Paper-3 English</p> <p>Paper-4 Punjabi/HCP</p> <p>Paper-5,6 &amp; 7 Optional Papers: Choose any three: English (Elective), Punjabi (Elective), Hindi (Elective), Political Science, Economics, Sociology, Geography and History.</p> <p>General Practicum: (a) School related practicum (b) Life skills training (c) Tutorials</p>	<p>Compulsory Papers:</p> <p>Paper-1 Curriculum Development and Evaluation</p> <p>Paper-2 Guidance and Counselling</p> <p>Paper-3 English</p> <p>Paper-4 Punjabi/HCP</p> <p>Paper-5,6 &amp; 7 Optional Papers: Choose any three: English (Elective), Punjabi (Elective), Hindi (Elective), Political Science, Economics, Sociology, Geography and History.</p> <p>General Practicum: (a) School related practicum (b) Life skills training (c) Tutorials</p>
Semester V	Semester VI
<p>Compulsory Papers:</p> <p>Paper-1 Technological Bases of Education and Pedagogy</p> <p>Paper-2 Health and Yoga Education</p> <p>Paper-3 English</p> <p>Paper-4 Punjabi/HCP</p> <p>Paper-5,6 &amp; 7 Optional Papers: Choose any three: English (Elective), Punjabi (Elective), Hindi (Elective), Political Science, Economics, Sociology, Geography and History.</p> <p>General Practicum: (a) School related practicum (b) Life skills training (c) Tutorials</p>	<p>Compulsory Papers:</p> <p>Paper-1 Educational Research and Statistics</p> <p>Paper-2 Value Education</p> <p>Paper-3 English</p> <p>Paper-4 Punjabi/HCP</p> <p>Paper-5,6 &amp; 7 Optional Papers: Choose any three: English (Elective), Punjabi (Elective), Hindi (Elective), Political Science, Economics, Sociology, Geography and History.</p> <p>General Practicum: (a) School related practicum (b) Life skills training (c) Tutorials</p>

Semester VII	Semester VIII
Compulsory Papers: weeks)	Internship Programme and Pedagogy Practice (16
Paper-1 Theory of Education: Philosophical, Sociological and Political perspectives Paper-2 The Learner-Nature and Development Paper-3 Theory of Instructional Technology Paper-4 School Management Paper-5 Information and Communication Technology (ICT) in Education Paper-6 & 7 Optional Papers: Choose any two: English, Punjabi, Hindi, History, Geography, Economics, Social Studies, Political Science and Sociology.	Tasks related to School internship: (Document & SWOT analysis, Case Study, Organization of School function, Co-curricular activities, Morning assembly, Social awareness programmes, Cleanliness & beautification of School Campus, Career Counselling Sessions, Life Skill and Preparation & Maintenance of various School Records)

**THRUST AREAS:** Perspectives of Education (Philosophical, Psychological, Sociological), Educational Technology, Life Skills and Pedagogical skills.

**PLACEMENTS:** The placement cell is active in grooming employability skills of students by conducting resume writing, group discussions and interview skills development sessions. Students are provided expert guidance for CTET examination, training in various pedagogies, school based experiences, and career related knowledge for future employment. In future, institute is planning to hold placement drive by collaboration with various schools.

**ALUMNI RELATIONS:** Institute holds its annual alumni meet in which views are exchanged among the alumni members and present students. It provides a platform for seeking suggestions and constructive feedback.

## DEPARTMENT OF LIFE LONG LEARNING AND EXTENSION

### ABOUT THE DEPARTMENT

Department of Life Long Learning & Extension was established in 1977 in the University in the name of Centre for Continuing Education. It was renamed as Department of Life Long Learning and Extension in November, 2009 and was located in the building of Emerging areas in Social Science. The UGC mandate for the department is to promote philosophy of Life Long Learning as a part of educational programmes of the University by involving schools, affiliated colleges, department of P.U., NGOs etc. To achieve this, the department is making concrete efforts to integrate formal and non-formal programmes by reaching to larger section of society especially deprived group through vocational programmes and skilled development programmes. These programmes include Basic course in Computer, Literacy, Fashion Designing, Cosmetology and Skin Care, Block Painting, First Aid and Home Nursing, Family Life Education, Life Skills and Personality Development. The target groups in these programs are university students, employees, youth, school dropouts, school students etc. The department has an equal opportunity cell and organized programmes for SC/ST/OBC and minority communities. The programme organized for them are coaching classes in English speaking and personality development and UGC NET coaching classes. The Department has established Equal Opportunity Cell / Enabling Unit for differently-abled persons in collaboration with Dean of Student Welfare. 30 disabled persons and 10 student volunteers have joined this programme. The objectives of this enabling unit is to facilitate admission of differently abled persons in various courses, disabled friendly infrastructure in the University and implementation of examination reform system introduced by the Centre Commission for persons with disability on February 26, 2013. The faculty of the department facilitates the student of faculty of Education & Faculty of Arts to pursue their research leading to awards of Ph.D degree. Beside, this, faculty members runs need based interdisciplinary programmes for the community.

In addition to this, the department lays stress on the awareness generation programmes as part of extension services and life long education on issues concerning quality of life improvement such as, safe environment, safe drinking water, preventing communicable, diseases, women empowerment, health and cleanliness, female feticide, HIV/AIDS awareness, nutrition and health, human rights, domestic violence against women and youth, employment trends and globalization. Besides this, the department organizes training programmes for school teachers, faculty development programmes, helpline for students, seminars and workshops on relevant themes.

**FACULTY**

Designation	Name	Field of Research Specialization
Professor	Sween	Education; Environmental Education; Guidance & Counseling; Extension Education;
Assistant Professors	Renu Gandhi <b>(Chairperson)</b>	Adolescents Education; Adult Education and Life Long Learning; Sociology of Education; Women Empowerment Extension Education; Organizing Research Methodology Programme for University Students.
	Prabha Vig	Education; Guidance and Counseling; Life Long Learning Curriculum Development and Teacher Education.
	Parmjit Singh Kang	Organizing Programme on Computer Literacy and UGC and International Relations and other issues.

**COURSE OFFERED (SEMESTER SYSTEM)**

Course	Seats	Duration	Eligibility*	Admission Criteria
Diploma in Pre-School Education	15 + 2 NRI	1 Year	Passed 10+2 examination in any stream from a recognized Education Board/CBSE.	Based on Merit

**TITLE OF THE SYLLABUS** (Details syllabus e available at <http://lifelonglearning:puchd.ac.in/>)

**Diploma**

Semester-I		Semester-II	
Paper-1	Pre-School Education in Emerging India	Paper-1	Aspects of Child Development
Paper-2	Child Development Community	Paper-2	Working with Parents and
Paper-3	Programme Planning for Pre-School Education.	Paper-3	Field based Project work on Pre-School Education

**THRUST AREAS:** Academic Course, Vocational programmes, Quality of life improvement programmes, Life Long Learning, Equal Opportunity Cell, Extension Education and awareness programmes.

**PLACEMENTS:** Our old students have been placed in the Nursery Schools especially Ankur School, P.U. Chandigarh, Sanjeevani School, Sector 11, Chandigarh and in various Anganwari Centres and crèches as Teachers and Instructors in Chandigarh (UT).

**ALUMNI RELATIONS:** The department will hold Alumni Meet in the year 2017.

**DEPARTMENT OF PHYSICAL EDUCATION****ABOUT THE DEPARTMENT**

The Department of Physical Education was started in the year of 1963 with M.A in Physical Education. The department has emerged as one of the premier centre of Physical Education in India. It has acquired a prominent status in the country and has earned several distinctions during its existence. The Department offers B.P.Ed. (Two Years), M.P.Ed. (Two Years), M.Phil. and Doctoral programmes and has highly qualified faculty.

In line with the University mission, the Department has the aim of educating the “whole-person” and to produce quality teachers as well as administrators in the profession of physical education and sports. By improving our academic programmes and services to the University and local community, we pledge to continually strive for academic excellence and to maintain our leadership role in our profession.

**FACULTY**

Designation	Name	Field of Research Specialization
Professors	Gurmeet Singh	Sports Training Biomechanics & Kinesiology
	Dalwinder Singh	Sports Management Sports Training
Associate Professor	Thingnam Nandalal Singh <b>(Chairperson)</b>	Fitness & Wellness Measurement and Evaluation
Assistant Professor	Raj Kumar	Sports Psychology, Sports Sociology

**COURSES OFFERED (SEMESTER SYSTEM)**

Course	Seats	Duration	Eligibility*	Admission Criteria
B.P.Ed.	34+2 NRI	2 Years	Passed one of the following examinations from a recognized University: Bachelor's Degree in any stream with 50% marks and having at least participation in the Inter-College/Inter-Zonal /District/School competition in sports and games as recognized by the AIU/IOA/SGFI/Govt. of India. OR Bachelor's Degree in Physical Education with 45% marks OR Bachelor's Degree in any stream with 45% marks and studied physical education as compulsory/ elective subject. OR Bachelor's Degree with 45% marks and having participated in National/ Inter University/ State competitions or secured 1 <sup>st</sup> , 2 <sup>nd</sup> or 3 <sup>rd</sup> position in Inter-College / Inter-Zonal / District / School competition in sports and games as recognized by the AIU/IOA/SGFI /Govt. of India. OR Bachelor's degree with participation in international competitions or secured 1 <sup>st</sup> , 2 <sup>nd</sup> or 3 <sup>rd</sup> position in National/Inter-University competition in sports and games as recognized by respective federations /AIU/IOA/SGFI/Govt. of India. OR Graduation with 45% marks and at least three years of teaching experience (for deputed in-service candidates i.e. trained physical education teachers/coaches). OR any other qualification recognized by the Syndicate as equivalent thereto.	Based on PU-CET(PG) Academics: 50% PU-CET(PG): 50% Physical Efficiency Test: (to be qualified in 35 Seconds)
M.P.Ed	28+2 NRI	2 Years	Passed one of the following examinations from a recognized University: Bachelor of Physical Education (B.P.Ed) or equivalent with at least 50% marks. OR Bachelor's of Science (B.Sc) in Health and Physical Education with at least 50% marks. OR any other qualification recognized by the Syndicate as equivalent thereto.	Based on PU-CET(PG) Academics: 50% PU-CET(PG):50% Physical Efficiency Test: (to be qualified in 35 Seconds)
M.Phil.	10+5 NRI	1 Year	See M.Phil./Ph.D. Prospectus 2017	
Ph.D.	Subject to availability	3-6 Years	See M.Phil./Ph.D. Prospectus 2017	
*5% Concession is admissible in eligibility marks to SC/ST/BC/PwD Candidates Additional Sports weightage will be provided as per the Handbook of Information-2017				

**TITLES OF SYLLABI:** Detailed syllabi available at <http://puchd.ac.in/syllabus.php>.

**B.P.Ed**

Semester-I		Semester-II	
Paper-1	History, Principles and Foundation of Physical Education	Paper-1	Yoga Education
Paper-2	Anatomy and Physiology	Paper-2	Health Education and Environmental Studies
Paper-3	Educational Technology and Methods of Teaching in Physical Education Elective Course (Any One )	Paper-3	Organization and Administration
Paper-1	Olympic Movement	Paper-1	Elective Course (Any One ) Contemporary issues in Physical Education, Fitness and Wellness
Paper-2	Officiating and Coaching	Paper-2	Sports Nutrition and Weight Management

Semester-III		Semester-IV	
Paper-1	Computer Application in Physical Education	Paper-1	Measurement and Evaluation in Physical Education
Paper-2	Sports Psychology and Sociology	Paper-2	Kinesiology and Biomechanics
Paper-3	Sports Training	Paper-3	Research and Statistics in Physical Education
	Elective Course (Any One )		Elective Course (Any One )
Paper-1	Sports Medicine, Physiotherapy, and rehabilitation	Paper-1	Theory of Sports and Games
Paper-2	Curriculum Design	Paper-2	Sports Management

**M.P.Ed.**

Semester-I		Semester-II	
Paper-1	Research Process in Physical Education and Sports Sciences	Paper-1	Applied Statistics in Physical Education and Sports
Paper-2	Test, Measurement and Evaluation in Physical Education	Paper-2	Sports Biomechanics and Kinesiology
Paper-3	Theory Game-I (Basketball/ Football / Gymnastics)	Paper-3	Track and Field Theory-I
	Elective Course (Any One )		Elective Course (Any One )
Paper-1	Educational Technology in Physical Education and Sports	Paper-1	Management of Physical Education and Sports
Paper-2	Yogic Sciences	Paper-2	Adapted Physical Education
Semester-III		Semester-IV	
Paper-1	Exercise Physiology	Paper-1	Sports Medicine
Paper-2	Scientific Principles of Sports Training	Paper-2	Professional Preparation and Curriculum Designs in Physical Education
Paper-3	Theory Game-II (Badminton/ Hockey/ Volleyball)	Paper-3	Theory Track and Field-II
	Elective Course (Any One )		Elective Course (Any One )
Paper-1	Sports Psychology	Paper-1	Health, Physical Fitness, Wellness and Sports Nutrition
Paper-2	Sports Sociology	Paper-2	Dissertation

**THRUST AREAS:** Health and Wellness, Sports Training and Pedagogic Techniques in Physical Education and Sports, Sports Biomechanics, Exercise Physiology and Sports Medicine, Sports and Physical Education History, Research Methodology in Physical Education, Measurement and Evaluation in Physical Education and Sports, Sports Sociology, Kinanthropometry, Sports Management, Sports Psychology and Yoga.

**PLACEMENTS:** Physical Education Teachers in Schools (DPE'S and Lecturers), Assistant Professors in Colleges and Universities, Assistant Directors in Universities, DPE'S in Colleges, Health, Fitness and Sports Trainers, Gym Instructors and Sports Event Managers.

**ALUMNI RELATIONS:** Department organizes alumni reconnect meets time to time to keep in touch with its alumni members.

**V. FACULTY OF ENGINEERING AND TECHNOLOGY**  
**Dr. S.S. BHATNAGAR UNIVERSITY INSTITUTE OF CHEMICAL**  
**ENGINEERING & TECHNOLOGY PANJAB UNIVERSITY**

**ABOUT THE INSTITUTE**

The Dr.S.S. Bhatnagar University Institute of Chemical Engineering and Technology, Panjab University, (<http://www.pu.ac.in/cet>) is a premier Institute in Northern India imparting quality education in Chemical Engineering, Food Technology, Polymer Technology and Industrial Chemistry; the programmes in Polymer Technology and Industrial Chemistry are offered at the Post graduate level only. The Institute was set up in 1958 in collaboration with the Illinois Institute of Technology Chicago, USA, and continues to maintain global standards of excellence in education and research. The Institute has attained a status of eminence in academia, R&D, consultancy – in India and around the world. The faculty members maintain close interaction with the industry, government, statutory organizations etc. and contribute extensively to research, industrial consultancy and public policy.

**FACULTY**

<b>Designation</b>	<b>Name</b>	<b>Field of Research Specialization</b>
Professors (re-employed)	Virender Kumar Rattan	Thermodynamics/Environmental Engineering
	Rakesh Kumar Chhabra	Magneto hydrodynamics/ Electrohydrodynamics Stability Problems
	Ravinder Kumar Wanchoo	Complex flow hydrodynamics, Heat transfer, Modeling & Simulation, Polymer Physics
Professors	U.S. Shivhare	Food Technology
	Meenakshi Goyal <b>(Chairperson)</b>	Chemical Technology (Inorganic & Organic) Science & Technology of Carbon
	Neeta Sharma	Inorganic Chemistry, Applied/Environmental Chemistry, Analytical Techniques/Chemistry
	Sanchita Chauhan	Modeling and Simulation, Environmental Engineering, Reaction Engineering
	Amritpal Toor	Mass transfer and Environment Engineering
	Anupama Sharma	Polymer Science Engineering, Synthesis of Biodegradable Polymers and their Nanocomposites, Nanocellulose extraction and its utilization
	Anupama Thakur	Polymer Science Engineering
	Seema Kapoor	Thermodynamics, Energy Technology, Nano Biomaterials Engineering
	Ritu Gupta	Hydrodynamics, Process Dynamics & Control, Modeling & Simulation
	Urvashi Gupta	Hydrodynamic and Hydromagnetic Stability Problems for viscoelastic fluids, micropolar fluids and Nanofluids for thermal convection / double-diffusive convection.
Associate Professors	Sushil Kumar Kansal	Mass Transfer/ Environmental Engineering/ Nano Technology
	Subodh Kumar Aggrawal	Heat Transfer
	Gaurav Verma	Polymers and Material Science, Nano Technology
Assistant Professors	Santanu Basu	Food Technology
	Gargi Ghoshal	Food Technology
	Maninder Kaur	Power System, Energy and Environment
	Amit Sobti	Complex flow hydrodynamics
	Baljinder Kaur Gill	Chemical Thermodynamics
	Gaurav Rattan	Reaction Engineering, Pollution control
	Surinder Singh	Petroleum Engineering, Separation Technology, Energy & Environment
	Sonia Sharma	Nano Biomaterial
	Jodh Singh	Mechanical Engg.



Nidhi Singhal	Management
Harjit Kaur	Management
Sanjeev Kumar Gautam	Experimental Condensed Matter Physics, Materials Science, Advanced Functional Materials
Assistant Professors (Contract basis)	Creep Behaviour of Isotropic and an Isotropic Materials
Harpreet Kaur	
Twinkle Bedi	Data Basis & Operating System

**COURSES OFFERED (SEMESTER SYSTEM)**

Course	Seats	Duration	Eligibility*	Admission Criteria
B.E. (Chemical)	89+11 NRI	4 Years	Has qualified in the JEE (Main) 2017 conducted by the C.B.S.E. and 10+2 with at least 60% marks in aggregate with Physics and Mathematics as compulsory subjects along with one of the Chemistry/ Biotechnology/Biology/Technical Vocational subjects conducted by a recognized Board/ University/ Council in March/April 2017 and not earlier than March/April 2015.	Based on JEE (Main)
B.E. (Food Technology)	30+3 NRI	4 Years	-do-	Based on JEE (Main)
Integrated B.E. (Chemical)-MBA	36+5NRI	5½ Years	-do-	Based on JEE (Main)
M.E. (Chemical)	20+2 NRI	2 Years	B.E./B.Tech.(Chemical) (04 years) or Five Year Integrated B.E.(Chem.)with MBA with a CGPA of 6.00 or at least 60% marks in the aggregate (where % marks are awarded) in the qualifying examination i.e. B.E./B.Tech. (Chemical) (04 years) or Five Year Integrated B.E.(Chem.)with MBA or any other equivalent qualifying degree as approved by the Syndicate.	Based on GATE Score. In case of left over seats, admission will be made on PU-CET(PG). Academics : 50% PU-CET(PG): 50%
M.E. (Chemical) with specl. in Envirn.Engg.	10+1 NRI	2 Years	B.E./B.Tech.(Chemical) (04 years) or Five Year Integrated B.E.(Chem.)with MBA with a CGPA of 6.00 or at least 60% marks in the aggregate (where % marks are awarded) in the qualifying examination i.e. B.E./B.Tech. (Chemical) (04 years) or Five Year Integrated B.E.(Chem.)with MBA or any other equivalent qualifying degree as approved by the Syndicate.	-do-
M.Tech. (Polymer)	15+5 Part-time+2 NRI	2 Years	B.E./B.Tech.(Chemical) (04 years) or Five Year Integrated B.E.(Chem.)with MBA with a CGPA of 6.00 or at least 60% marks in the aggregate (where % marks are awarded) in the qualifying examination i.e. B.E./B.Tech. (Chemical) (04 years) or Five Year Integrated B.E.(Chem.)with MBA or any other equivalent qualifying degree as approved by the	-do-

			Syndicate. OR Master's degree with at least 55% marks in the aggregate in Technical Chemistry/Applied Chemistry/ Industrial Chemistry/Chemistry (with Mathematics upto graduation or an equivalent examination from Panjab University or any other recognized University.	
M.E. (Food Technology)	10+1 NRI	2 Years	B.E./B.Tech. degree in Food Technology /Dairy Technology/ Agricultural Engineering/Food Engineering/ Chemical Engineering/Chemical Technology (04 years) or Five Year Integrated B.E.(Chem.) with MBA or any other equivalent qualifying degree as approved by the Syndicate with a CGPA of 6.00 or at least 60% marks in the aggregate (where % marks are awarded).	Based on GATE Score. In case of left over seats, admission will be made on PU-CET(PG). Academics : 50% PU-CET(PG): 50%
M.Sc.(Industrial Chemistry)	17+2 NRI	2 Years	B.Sc. (3- Year Course) with Mathematics and Chemistry as compulsory subjects / B.Sc. (Hons.) Chemistry / B.Sc.(Hons.) Chemistry with Maths as a compulsory subject/B.Sc.(3-Year Course) with Industrial Chemistry and Mathematics as compulsory subject or any other equivalent examination as approved by the syndicate. A candidate seeking admission must have obtained a minimum CGPA of 5.5 OR 55% marks (where % marks are awarded) in the qualifying examination mentioned above.	Based on PU-CET(PG) Academics : 50% PU-CET(PG): 50%
Ph.D.	24	3-6 Years	See M.phil./Ph.D prospectus-2017	
*5% Concession is admissible in eligibility marks to SC/ST/BC/PwD candidates				

**TITLES OF SYLLABI:** Detailed syllabi available at <http://puchd.ac.in/syllabus.php>.

### B.E. (Chemical)

Semester-I		Semester-II	
Paper -1	Mathematics –I	Paper -1	Mathematics –II
Paper-2	Inorganic Chemistry	Paper-2	Applied Physics (Condensed Matter)
Paper-3	Engineering Drawing (Pr)	Paper-3	Communication Skills (Advance)
Paper-4	Computer Programming	Paper-4	Electrical & Electronics Engineering
Paper-5	Introduction to Engineering & Technology	Paper-5	Engineering Mechanics
Paper-6	Ethics and Self-Awareness	Paper-6	Workshop Practices (Pr) Introduction to Environmental Science
Semester- III		Semester- IV	
Paper -1	Physical Chemistry	Paper -1	Mathematics – III
Paper-2	Fluid Flow	Paper-2	Heat Transfer
Paper-3	Process Plant Material &Energy Balance	Paper-3	Chemical Engineering Thermodynamics
Paper-4	Engineering Materials	Paper-4	Organic Chemistry
Paper-5	Strength of Materials	Paper-5	Mechanical Operations
Paper-6	Process Equipment Design (Pr)	Paper-6	Comprehensive Viva (Pr)

<b>Semester- V</b>	<b>Semester- VI</b>
Paper-1 Numerical methods in Chemical Engineering Paper-2 Energy Technology Paper-3 Chemical Reaction Engineering-I Paper-4 Mass Transfer-I Paper-5 Chemical Technology (Inorganic)  Paper-6 Process Plant Design-I (Pr) Paper-7 Chemical Engineering Computation lab (Pr)	Paper-1 Chemical Reaction Engineering-II Paper-2 Mass Transfer-II Paper-3 Process Dynamics & Control Paper-4 Chemical Technology (Organic) Paper-5 Departmental Elective-I (Petroleum Processing Engineering)
<b>Semester- VII</b>	<b>Semester -VIII</b>
Paper-1 Transport Phenomena Paper-2 Environmental Engineering Paper-3 Process Modelling and Simulation (Pr) Paper-4 Industrial Training Paper-5 Process Plant Design-II (Pr)  Paper-6 Project work Paper-7 Open Elective – I Paper-8 Department Elective-II <b>B.E. (Food Technology)</b>	Paper-1 Process Instrumentation Paper-2 Process Engineering Economics Paper-3 Project work Paper-4 Comprehensive viva (Pr) Paper-5 Literature survey and Report Writing and Seminar (Pr)  Paper-6 Open Elective-II Paper-7 Open Elective-III Paper-8 Department Elective-III
<b>Semester -I</b>	<b>Semester- II</b>
Paper-1 Mathematics –I Paper-2 Applied Physics (Condensed Matter) Paper-3 Communication Skills (Advance) Paper-4 Introduction to Environmental Science Paper-5 Electrical & Electronics Engineering Paper-6 Engineering Mechanics Paper-7 Workshop Practices (Pr)	Paper-1 Engineering Drawing (Pr) Paper-2 Computer Programming Paper-3 Inorganic Chemistry Paper-4 Mathematics –II Paper-5 Introduction to Engineering & Technology Paper-6 Ethics and Self-Awareness
<b>Semester III</b>	<b>Semester IV</b>
Paper-1 Element of Bio & Food Science Paper-2 Fluid Flow Paper-3 Biochemistry & Nutrition Paper-4 Process Plant Material & Energy Balance Paper-5 Organic Chemistry	Paper-1 Chemical Engg Thermodynamics Paper-2 Food Chemistry Paper-3 Food Microbiology Paper-4 Mechanical Operation Paper-5 Strength of Materials Paper-6 Process Equipment Design (Pr) Paper-7 Comprehensive Viva- I (Pr)
<b>Semester- V</b>	<b>Semester- VI</b>
Paper-1 Heat Transfer Paper-2 Mass Transfer -I Paper-3 Processing of Cereal & Pulses Paper-4 Processing of Fruits and vegetables Paper-5 Beverage Technology Paper-6 Confectionery Technology Paper-7 Beverage & Confectionary Technology Paper-8 PPD-I (Pr)	Paper-1 Numerical Methods in Chemical Engineering Paper-2 Mass Transfer-II Paper-3 Chemical Reaction Engineering-I Paper-4 Processing of oil seeds, oils and fats Paper-5 Processing of milk and milk products Paper-6 Chemical Engineering Computation Lab (Pr) Paper-7 PPD-II Lab (Pr)
<b>Semester- VII</b>	<b>Semester- VIII</b>
Paper-1 Process Dynamics and Control Paper-2 Open Elective I	Paper-1 Environmental Engineering Paper-2 Department Elective II

Paper -3 Process Engg. Economics Paper -4 Departmental Elective- I Paper -5 Project Work Paper -6 Literature Survey, report writing and Seminar (Pr) Paper -7 Industrial Training	Paper -3 Open Elective II Paper -4 Open Elective III Paper -5 Departmental Elective III Paper -6 Project work  Paper -7 Process Modelling and Simulation Lab (Pr) Paper -8 Comprehensive Viva (Pr)
<b>Integrated B.E. (Chemical)-MBA</b>	
<b>Semester- I</b> Paper -1 Mathematics –I Paper -2 Applied Physics (Condensed Matter) Paper -3 Communication Skills (Advance) Paper -4 Introduction to Environmental Science Paper -5 Electrical & Electronics Engineering Paper -6 Engineering Mechanics Paper -7 Workshop Practices (Pr)	<b>Semester- II</b> Paper -1 Engineering Drawing (Pr) Paper -2 Computer Programming Paper -3 Inorganic Chemistry Paper -4 Mathematics –II Paper -5 Introduction to Engineering & Technology Paper -6 Ethics and Self-Awareness
<b>Semester -III</b> Paper -1 Process Plant Material & Energy Balance Paper -2 Fluid Flow Paper -3 Engineering Materials Paper -4 Mathematics-III Paper -5 Organic Chemistry Paper -6 Research Methods in Management Paper -7 Principles of Management	<b>Semester -IV</b> Paper 1 Physical Chemistry Paper -1 Mechanical operations Paper -2 Chemical Engineering Thermodynamics Paper -3 Comprehensive Viva-I (Pr) Paper -4 Chemical Technology-(Inorganic) Paper -5 Strength of Materials Paper -7 Process Equipment Design (Pr)
<b>Semester- V</b> Paper -1 Heat Transfer Paper -2 Mass Transfer-I Paper -3 Process Plant Design –I (Pr) Paper -4 Chemical Technology -Organic Paper -5 Departmental Elective-I Paper -6 Operations Research	<b>Semester- VI</b> Paper -1 Numerical Methods in Chemical Engineering Paper -2 Energy Technology Paper -3 Chemical Reaction Engg-I Paper -4 Chemical Engineering Computation Lab (Pr) Paper -5 Mass Transfer-II Paper -6 Process Plant Design-II (Pr) Paper -7 Open Elective-I Paper -8 Managerial Economics
<b>Semester -VII</b> Paper -1 Chemical Reaction Engineering-II Paper -2 Process Dynamics and Control Paper -3 Industrial Training-I Paper -4 Project Work Paper -5 Process Engineering Economics Paper -6 Literature Survey, Report Writing and Seminar (Pr) Paper -7 Open Elective-II Paper -8 Department Elective-II Paper -9 Marketing Management	<b>Semester -VIII</b> Paper -1 Transport phenomena Paper -2 Environment Engineering Paper -3 Process Modelling and Simulation (Pr) Paper -4 Project Work Paper -5 Comprehensive Viva Paper -6 Open Elective-III  Paper -7 Department Elective-III Paper -8 Financial Accounting Paper -9 Business Environment
<b>Semester- IX</b> Paper -1 Financial Management Paper -2 Functional Subject-1 Paper -3 Functional Subject-2 Paper -4 Functional Subject-3	<b>Semester -X</b> Paper -1 Strategic Management Paper -2 Business Environment Paper -3 Production and Operation Management Paper -4 Intellectual Property Right

Paper-5 Functional Subject-4 Paper-6 Workshop on Soft Skills (Pr.) Paper-7 Workshop on Developing Entrepreneurial Skills (Pr) Paper-8 Summer Training Paper-9 Research Project	Paper-5 Functional Subject-5 Paper-6 Functional Subject-6 Paper-7 Seminar on Corporate Governance (Pr)  Paper-8 Workshop on Information Technology and Systems (Pr) Paper-9 Research Project Paper-10 Comprehensive Viva-Voce-III (Pr)
<b>M.E. (Chemical):</b>	
<b>Semester- I</b>	<b>Semester- II</b>
Paper-1 Mathematical Methods in Chemical Engineering Paper-2 Fluid Mechanics Paper-3 Mass Transfer Paper-4 Chemical Engineering Thermodynamics Paper-5 Transport Phenomena	Paper-1 Heat Transfer  Paper-2 Research Methodology Paper-3 Chemical Reaction Engineering Paper-4 Process Dynamics & Control Paper-5 Process Modeling & Simulation Paper-6 Process Modeling & Simulation (Pr) Paper-7 Seminar (Pr)
<b>Semester- III</b>	<b>Semester- IV</b>
Paper-1 Open Elective Paper-2 Elective Paper-3 Preliminary Thesis	Paper-I Thesis
<b>M.E. (Food Technology)</b>	
<b>Semester -I</b>	<b>Semester -II</b>
Paper-1 Food Engineering Paper-2 Biochemical Engineering  Paper-3 Food Safety and Quality Management Paper-4 Selected Topics of Cereals, Oilseeds and Pulses Paper-5 Functional Foods and Nutraceuticals Paper-6 Biochemical Engineering-I (Pr) Paper-7 Food Process Engineering (Pr)	Paper-1 Food Packaging Paper-2 Selected topics in Fruits and Vegetable Processing Paper-3 Food Process Equipment Design Paper-4 Research Methodology  Paper-5 Food Product Development Paper-6 Food Processing and Analysis (Pr)
<b>Semester- III</b>	<b>Semester- IV</b>
Paper-1 Analytical Techniques Paper-2 Electives Paper-3 Preliminary thesis	Paper-1 Thesis
<b>M.Sc. (Industrial Chemistry)</b>	
<b>Semester- I</b>	<b>Semester- II</b>
Paper-1 Chemical Engineering-I Paper-2 Chemical Technology (Organic) Paper-3 Process Instrumentation Paper-4 Analytical Techniques Paper-5 Material & Energy Balances Paper-6 Numerical Analysis Paper-7 Chemical Engineering Lab.-I Pr) Paper-8 Chemical Technology Lab. (Organic) (Pr) Paper-9 Analytical Techniques Lab. Pr)	Paper-1 Chemical Engineering-II Paper-2 Chemical Technology (Inorganic) Paper-3 Engineering Materials Paper-4 Industrial Management Paper-5 Mathematics Paper-6 Chemical Engineering Lab.-II (Pr) Paper-7 Chemical Technology Lab. (Inorganic) (Pr) Paper-8 Materials Lab. (Pr) Paper-9 Computer Applications (Pr)

Semester -III		Semester- IV	
Paper -1	Chemical Engineering-III	Paper -1	Thesis
Paper-2	Industrial Pollution Control		
Paper-3	Elective		
<b>M.Tech. (Polymer)</b>			
Semester- I		Semester- II	
Paper -1	Polymer Physics	Paper -1	Polymer Processing Techniques
Paper-2	Polymer Chemistry & Characterization	Paper-2	Polymer Reaction Engineering
Paper-3	Macromolecular Hydrodynamics	Paper-3	Composite Materials
Paper-4	Polymer Materials	Paper-4	Polymer Product Design
Paper-5	Numerical Methods	Paper-5	Process Modeling & Simulation in Polymer Systems
Paper-6	Chemical Engineering Fundamentals	Paper-6	Process Modeling & Simulation Lab (Pr)
Paper-7	Polymer Science Laboratory-I (Pr)	Paper-7	Seminar (Pr)
Paper-8	Computer Applications (Pr)		
Semester -III		Semester- IV	
Paper-1	Elective	Paper-1	Thesis
Paper-2	Open Elective		
Paper-3	Preliminary Thesis		
Paper-4	Polymer Science Lab.-II (Pr)		
<b>M.E. (CHEMICAL ) ENGINEERING WITH SPECIALIZATION IN ENVIRONMENTAL ENGINEERING</b>			
Semester- I		Semester- II	
Paper -1	Mathematical Methods in Chemical Engineering	Paper -1	Heat Transfer
Paper-2	Fluid Mechanics	Paper-2	Research Methodology
Paper-3	Mass Transfer	Paper-3	Chemical Reaction Engineering
Paper-4	Chemical Engineering Thermodynamics	Paper-4	Process Dynamics & Control
Paper-5	Transport Phenomena	Paper-5	Process Modeling & Simulation
Paper-6	Air Pollution Control Engineering	Paper-6	Solid Waste Management
		Paper-7	Process Modeling & Simulation (Pr)
		Paper-8	Seminar (Pr)
Semester- III		Semester- IV	
Paper-1	Open Elective	Paper-I	Thesis
Paper-2	Elective		
Paper-3	Preliminary Thesis		

**THRUST AREAS:** Adsorption of some organic and inorganic pollutants from aqueous solution on activated carbons, Polyurethane-clay nanocomposites coatings, Nanomaterials and their application, Polymer based nanocomposites, Modeling of polymer reactors, Polymer Rheology, Environment Engineering, Chemical Reaction Engineering & Thermodynamics, Agro Residues and Food Processing, Biomaterials, Biopolymers, Food Product Development, Modeling and Simulation.

**ALUMNI RELATIONS:** Institute has a very strong alumni base. The alumni occupy positions of responsibility and eminence in all spheres of industry, academia and Government in India and abroad. They are associated with Institutions like IOCL, Petronet, LNG, HMEL, Hindustan Unilever Ltd., Vedanta, UOP, Ranbaxy, ITC, Nestle, Wrigley, KBR, ONGC, Shell India Ltd., Cain India, EIL, Bectal, GAIL and many more.

**PLACEMENTS:** Many MNC's and some of the reputed National companies that have visited our institute include; Universal Oil Products (UOP), Reliance Industries Limited (RIL), Petronet LNG, Indian Synthetic Rubber Limited (ISRL), Infosys, Kellogg Brown & Root (KBR), Samsung Engineering, Technip KT India Ltd., SRF Chemicals, Nestle, Cadbury etc. The maximum package offered to the B.E. students during placements in the Institute is about Rs. 9 lacs /annum and the average package is about 5 lacs /annum.

## UNIVERSITY INSTITUTE OF ENGINEERING & TECHNOLOGY

### ABOUT THE INSTITUTE

UIET was established by Panjab University as a constituent institute in 2002. With the vision to be the front runner in engineering education and research, the mission of University Institute of Engineering and Technology (UIET) is to produce professionally competent students for career in engineering and technology by providing value-based quality education. It offers four years Bachelor of Engineering (B.E) and full time Ph.D in Biotechnology, Computer Science and Engineering, Information Technology, Electrical and Electronics, Electronics and Communication and Mechanical Engineering. It offers 8 post graduate programmes in Biotechnology, Computer Science and Engineering, Information Technology, Electrical, Electronics and Communication, Mechanical Engineering, Microelectronics and Material Science & Technology. Five UG Programmes have got NBA accreditation namely Biotechnology, Computer Science and Engineering, Electrical and Electronics, Electronics and Communication and Mechanical Engineering. UIET has MOUs with industry leaders and academia like Infosys, Spice Digital Limited, PGIMER, CSIO, C-DAC, the University of Western Australia, IIT Kanpur, IIT Roorkee etc.

The faculty is involved in various sponsored research projects at the national and international level. Sponsored research projects are from different agencies like DIT, AICTE, DST, Department of Biotechnology Wellcome Trust, etc. **Design Innovation Centre (DIC)** which is an initiative of Ministry of Human Resource Development (MHRD), Government of India, to nurture design and innovation culture in engineering education has been setup at Panjab University with UIET as the hub. It follows the hub and spoke model and PEC University of Technology, CSIO, HSJ Institute of Dental Science are the spokes. Hub and the spokes share expertise, facilities and experiences in achieving the objectives of DIC with financial outlay of Rs. 10 crore.

### FACULTY

Designation	Name	Field of Research Specialization
Professors	Renu Vig <b>(Director)</b>	Signal Processing and Fuzzy Logic
	Savita Gupta	Bio-medical image Processing
	Sukhwinder Singh	Bio-medical image Processing, Wireless Sensor networks
	J.K. Goswamy	Nuclear Structure in mass A~100 region Material Science
	Sanjeev Puri	Polycystic Kidney Disease and Stem Cell Biology
	Gurdeep Singh	Data warehousing and data mining
	Harmesh Kumar	Manufacturing Technology, Quality Control, Design and Manufacturing Welding
	Vinay Kanwar	Numerical Analysis fluid Dynamics
	Sunil Aggarwal	Neural Networks & Applications, Signal Processing and Wireless Communication
	Krishan Kumar	Network Security
Associate Professors	Manoj Kumar Sharma	Active Noise Control, Control Systems, Renewable Energy Sources and Neural Networks & Fuzzy logic
	Manu Sharma	Active Vibration control Vibrations, Design
	Sanjay Vohra	Mechanics of Materials
	Harish Kumar	Wireless Networks, Information Retrieval
	Sarbjeet Singh	Distributed Networks, Security
	Sakshi Kaushal	Wireless Networks, Cloud Computing, Security
	Naveen Aggarwal	Data Mining, Image Processing
Assistant Professors	Ajay Mittal	Image processing Computer vision and machine learning
	Monika Randhawa	Theoretical High Energy physics
	Roopali Garg	Electronics & Communication
	Inderdeep Kaur Aulakh	Wireless Communication Networks
	Yajvender Pal Verma	Distributed generation Micro and optimization, Renewable energy integration and electrical market issues
	Arvind Kumar	Semiconductor and VLSI

Saurabh Bhatia	Numerical Analysis
Sharmelee Thangjam	Signal Processing
Deepak Kumar	Micro grids, Power systems issues
Veenu Mangat	Data Mining & Warehousing
Kalpana Dahiya	Operation Research
Naresh Kumar	Wireless and Mobile Communication
Amrinder Pal Singh	System Modeling and Control, Composite materials
Vishal Sharma	VLSI and Microelectronics
Jaget Singh	Antenna and Microwave Engineering
Sumit Budhiraja	Signal Processing and Communication
Mukesh Kumar	Web Mining, Computer Networks
Shankar Sehgal	Design and Manufacturing, Powder Metallurgy
Mandeep Kaur	Image Processing
Jaspreet Kaur	Cellular and molecular medicine, Microbial Biochemistry
Hema Setia	Polymer Science
Anupreet Kaur	Chemical Engg.
Vishal Gupta	Natural Language Processing, Information Retrieval
Amandeep verma	Parallel & Distributed Computing
Makhan Singh	Software Engg, Cloud computing
Puneet Jai Kaur	Software Engg
Shailendra Kumar Arya	Enzyme Biology
Nisha Tayal	Microcontroller, Embedded systems and Automation Smart grid
Shuchi Gupta	Condensed Matter
Harbhinder Singh	Theory of Machines and Robotics
Surjeet Singh	Rotodynamics Machines and Heat Transfer
Damanjeet Kaur	Power systems optimization, Distribution systems Planning Optimization using AI Techniques
Poonam Sood	Vibration Control, Model Updating, FEM
Amandeep Singh Wadhwa	Rotodynamics Machines and Engineering Mechanics
Jaswinder Singh Mehta	Design Engineering
Amit Chauhan	Triblogy, journal bearing, Metal Composite and wind energy
Prashant Jindal	Nano Components materials characterization
Rajesh Kumar	CAD/CAM, Robotics, Nano technology
Preetika Sharma	Analog and Digital Electronics, semiconductor technologies, Nano Electronics
Sarpreet Kaur	Smart Grids, Power Systems Analysis, designing of Electrical machines using Finite element Analysis
Preeti Gupta	Digital System Design, Control System and Biometrics
Neeraj Sharma	Optical Fiber Communication
CharuMadhu	Nanophotonics, Optical Communication
Nidhi	Bio Signal Processing
Puneet Kaur	Power Electronics
Preeti	Optical Communication (wired and wireless) and Optical Biosensor
Amit Chaudhary	Semiconductor and VLSI
Parveen Goyal	Manufacturing Process and Technology, Non Conventional Machining
Anjali Gupta	Machine Design, Rotodynamics Machines
Gaurav Sapra	Nano Technology, Wireless Communication, Digital Signal Processing, Microcontroller and Embedded System design



Parul Gaur	Power Electronics, Optimization using PSO techniques and other Algorithm, Communication Engg.
Rajkumari	Parallel & Distributed Computing
Suksha Sharma	Embedded System
Monika	Software Engg.
Akashdeep	Digital Image Processing, Wireless Networks
Nirmal Kaur	Multi Processor Systems
Mamta Juneja	Digital Image Processing
Rohit Kumar	Software Engineering
Gagandeep Singh	Machine Design, Refrigeration and Air Conditioning
Aditya Kaushik	Numerical Analysis
Tukesh Soni	Mechanical Vibration
Minto Rattan	Solid Mechanics
Anil Kumar	Organic Chemistry
Renu Thapar	B-Lactam Antibiotics
Prashant K Nanda	Nuclear medicine & Synthetic in organic materials
Sonia Kapoor	Mammalian cytoskeleton and tumor biology, Bio and nanomaterials and for tissue Engg.
Madhu Khatri	Nanomedicine and Nanotoxicology
Mary Chatterjee	Cancer Biology
Jagjit Singh	Matrix Analysis
Nidhi	Data Mining
Neelam Goel	Bioinformatic, Soft Computing, Semantic Web
Sunil Bansal	Experimental High Energy Physics
Aditi Gupta	Power System Deregulation Congestion Management, Control System
Suresh Kumar	Experimental Condensed Matter Physics/Material Science
Vivek Pahwa	Electrical Machines and drives, Power systems power Electronics
Sabhyata Soni	Digital Communication, optical & Wireless Communication
Yogita	Data Mining & Databases
Preeti Aggarwal	Digital Image Processing
Nishima	Nano Science And Nano Technology
Ravreet Kaur	Parallel and distributed computing, computer networks, algorithm analysis and design
Deepti Gupta	Wireless Sensor Networks

**TEMPORARY FACULTY**

Assistant Professors	Jyoti Sharma	Instability of nano fluids
	Hitesh Kapoor	HR & Marketing
	Anu Jhamb	Human Resource Management
	Geetu	Quantum Information Processing
	Sarvjit Singh	Wireless Communication
	Garima Joshi	Gesture Recognition and Machine Learning
	Daljit Kaur	Image Processing
	Rajni Sobti	Mobile Adhoc Networks
	Sukhvir Singh	Mobile Adhoc Networks
	Renuka Rai	Theoretical Stochastic processes
	Pardeep Kaur	Optical Fiber Communication & Embedded Systems
	Ranjana Bhatia	Microbiology

Prabhjot Kaur	Operation Research
Parminder Kaur	Biochemistry
Minakshi Garg	Bioinformatics and Food biotechnology
Dhirti	Medical Image Processing
Anaahat Dhindsa	Image Processing
Jatinder Singh	VLSI Design, Digital Design
Rajneesh Singh	Image processing
Sanjiv Kumar	Optical Communication
Manisha Kaushal	Digital Image Processing
Harvinder Kaur	Optical Communication
Anu Priya Minhas	Yeast molecular biology, Plant Biotechnology
Vijay Kumar	VLSI Design
Gurpreet Kaur	Digital Signal Processing
Gursharan Singh	Industrial and bio Control Biotechnology
Chander Parkash	Manufacturing, Bio-manufacturing, optimization, Biomechanics
Kuldeep Singh Bedi	Power Electronics firewall Photovoltaic System, Power System
Amit Thakur	Nano Technology, Nano fibres, Nano traditional Machining.
Mamta Sharma	Experimental Condensed Matter Physics/ Material Science
Munish Kansal	Numerical Analysis
Jyoti Sood	Theoretical condensed Matter Physics

In addition to the regular faculty UIET is utilizing the expert knowledge of senior faculty of other departments of Panjab University and from professional institutes like PEC University of Technology, National Institute of Pharmaceutical Education & Research (NIPER), Institute of Microbial Technology (IMTECH) and NITTTR, Chandigarh, College of Engineering & Technology, etc as Guest Faculty.

#### COURSES OFFERED (SEMESTER SYSTEM)

Course	Seats	Duration	Eligibility*	Admission Criteria
B.E. in Computer Science & Engg.	108+5 EWS + 5 NRI	4 Years	<b>For all B.E. Courses:</b> Passed 10+2 examination with atleast 60% marks in aggregate having Physics and Mathematics as compulsory subjects along with one of the subjects Chemistry/ Biotechnology/ Biology/ Technical Vocational subjects conducted by a recognized Board/ University / Council in March/April 2017 and not earlier than March/ April 2015.	Based on JEE (Main) ranking
B.E. in Information Technology	108+5 EWS + 5 NRI	4 Years		
B.E. in Electronics & Communication	120 +5 EWS + 5 NRI	4 Years		
B.E. in Biotechnology	81+4 EWS +3 NRI	4 Years		
B.E. in Electrical and Electronics	81+4 EWS +3 NRI	4 Years		
B.E. in Mechanical	81+4 EWS +3 NRI	4 Years		
M.E. in Computer Science & Engineering	20*+2 NRI	2 Years	B.E. or B.Tech or equivalent degree with atleast 60% marks in aggregate in Computer Science and Engineering/ Information Technology from Panjab University or any other recognized University.	Based on GATE Score

M.E. in Electronics & Communication	20*+2 NRI	2 Years	B.E. or B.Tech or equivalent degree with at least 60% marks in aggregate in Electronics / Electronics & Communication Engg. / Electronic & Telecommunication Engg. from Panjab University or any other recognized University	Based on GATE Score
M.E. Mechanical Engineering	20*+2 NRI	2 Years	B.E./B.Tech with at least 60% marks in aggregate in Mechanical Engineering/ Production Engineering from Panjab University or any other recognized University.	Based on GATE Score
M.Tech. Microelectronics	12+3 SC/ST +2 NRI	2 Years	B.E./B.Tech or equivalent degree with atleast 60% marks in aggregate in Computer Science and Engineering/ Electrical/ Electrical & Electronics/ Electronics/Microelectronics/ Electronics & Electrical Communications/Electronics & Telecommunication/Electronics & Communication/Information Technology /Instrumentation Engineering/M.Sc. Applied Physics/ M.Sc. Physics with specialization in Electronics or M.Sc. in Electronics (as approved by AICTE) from P.U. or any other recognized University.	Based on GATE Score
M.E. in Information Technology	20*+2 NRI	2 Years	B.E. or B.Tech or equivalent degree with atleast 60% marks in aggregate in Information Technology/Computer Science & Engineering/ Electronics & Communication Engineering/ Electrical & Electronics Engineering/ Computer Science & Electronics Engineering/ Software Engineering from P.U. or any other recognized University.	Based on GATE Score.
M.E. in Electrical Engg. (Power System)	20*+2 NRI	2 Years	B.E./B.Tech with atleast 60% marks in aggregate in Electrical/Electrical & Electronics Engineering from P.U. or any other recognized University.	Based on PU-CET(PG) Academics: 50% PU-CET (PG):50%
M.Tech Material Science & Technology	20*+2 NRI	2 Years	M.Sc. (Physics), M.Sc. (Chemistry), B.E. Mechanical/ Electrical/Electrical & Electronics/Civil/Production/ Chemical with at least 60% marks in aggregate from Panjab University or any other recognized University.	Based on GATE Score. In case of left over seats, admission will be done on the basis of PU-CET(PG) Academics: 50% PU-CET(PG):50%
M.E. in Biotechnology	20*+2 NRI	2 Years	B.E. (Biotechnology) with atleast 60% marks in aggregate from Panjab University or any other recognized University.	Based on GATE Score. In case of left over seats, admission will be done on the basis of PU-CET (PG) Academics: 50% PU-CET(PG):50%

Ph.D.	See M.Phil./ Ph.D Prospectus - 2017	
Computer Science and Engineering	15	3-6 Years
Information Technology Engineering	12	3-6 Years
Electrical and Electronics	08	3-6 Years
Biotechnology	06	3-6 Years
Mechanical Engineering	10	3-6 Years
Electronic & Communication Engineering	06	3-6 Years
Applied Science	Math-3 Physics-9 Chemistry-5	3-6 Years
*5% Concession is admissible in eligibility marks to SC/ST/BC/PwD Candidates		

**TITLES OF SYLLABI:** Detailed syllabi available at <http://puchd.ac.in/syllabus.php>.

### BE Computer Science and Engineering

Semester I		Semester II	
Paper 1	Calculus	Paper 1	Differential Equations and Transforms
Paper 2	Introduction to Computer Science and Engineering	Paper 2	Communication Skills
Paper 3	Programming Fundamentals	Paper 3	Applied Chemistry
Paper 4	Physics Course 1	Paper 4	Digital Electronics and Logic Design
Paper 5	Ethics and Self Awareness	Paper 5	Object Oriented Programming
Paper 6	Introduction to Environment Science	Paper 6	Workshop Practice
Semester III		Semester IV	
Paper 1	Data Structures	Paper 1	Analysis and Design of Algorithms
Paper 2	Database Systems	Paper 2	Web Technologies
Paper 3	Discrete Structures	Paper 3	Operating Systems
Paper 4	Microprocessors	Paper 4	Software Engineering
Paper 5	Economics	Paper 5	Computer Architecture and Organization
Paper 6	Vocational Training (After 2 <sup>nd</sup> Semester)		
Semester V		Semester VI	
Paper 1	Data Communication and Networks	Paper 1	Computer Networks and Security
Paper 2	Technical Communication and Soft Skills	Paper 2	Linear Algebra and Probability Theory
Paper 3	Computer Graphics	Paper 3	Modeling and Simulation
Paper 4	Artificial Intelligence	Paper 4	Compiler Design
Paper 5	Principle of Programming Languages	Paper 5	Option: Any of the following
Paper 6	Theory of Computation		i. Software Testing and Quality Assurance
Paper 7	Industrial Training (after 4 <sup>th</sup> semester)		ii. Soft computing
Paper 8	Principles of Designing (optional)		iii. Data Mining and Analysis
			iv. Mobile Application Development
			v. Data Acquisition and interfacing
			vi. Multimedia Computing
Semester VII		Semester VIII	
Paper 1	Compiler Design	Paper 1	Advance Database Systems
Paper 2	Multimedia System Design	Paper 2	Digital Image Processing

Paper 3	Software Testing and Quality Assurance	Paper 3	Option: Any of the following i. Network Programming ii. Visual Programming iii. Java Technologies
Paper 4	Option: Any of the following i. Information Security ii. Business Intelligence iii. Mobile Computing	Paper 4	Option: Any of the following i. Soft computing ii. Embedded systems iii. Building enterprise applications
Paper 5	Project-I	Paper 5	Project-II

**List of subjects of B.E. (Information Technology) for Academic Session 2017-18**

<b>Semester I</b>		<b>Semester II</b>	
Paper-1	Calculus	Paper-1	Differential Equations and Transforms
Paper-2	Introduction to Information Technology	Paper-2	Communication Skills
Paper-3	Programming Fundamental	Paper-3	Physics Course 2
Paper-4	Physics Course 1	Paper-4	Workshop Practice
Paper-5	Ethics and Self Awareness	Paper-5	Introduction to Environmental Science
Paper-6	Basic Electrical Engineering	Paper-6	Introduction to Electronics
<b>Semester III</b>		<b>Semester IV</b>	
Paper-1	Linear Algebra and Probability Theory	Paper-1	Elective-I(from Humanities and Social Sciences)
Paper-2	Social and Professional Aspects of Information Technology	a)	Economics
Paper-3	Analog and Digital Communication	b)	Introduction to Psychology
Paper-4	Object Oriented Programming using C++	c)	Sociology
Paper-5	Digital Electronics	d)	Russian Language
Paper-6	Computer Architecture & Organization	Paper-2	Discrete Structures
		Paper-3	Data Structures
		Paper-4	Microprocessor & Assembly Language Programming
		Paper-5	Computer Networks
		Paper-6	Operating System
		Paper-7	Educational Tour
<b>Semester V</b>		<b>Semester VI</b>	
Paper-1	Database Management Systems	Paper-1	Wireless Communication
Paper-2	Computer Graphics	Paper-2	Network Security & Cryptography
Paper-3	Operating System	Paper-3	Design and Analysis of Algorithms
Paper-4	Multimedia System	Paper-4	Departmental Elective Course-I (choose any one from the following)
		a)	Business Intelligence
		b)	Software Engineering
		c)	System Software
		d)	Network Management and Administration
		e)	Cyber Crime and Digital Forensic
		f)	Data Mining and Analytics
Paper-5	Theory of Computation	Paper-5	Open Elective (Choose any one from the following)
		a)	Neural Network and Fuzzy Logic
		b)	System Analysis and Design
		c)	Distributed Operating System
		d)	Design and Analysis of Algorithms
Paper-6	Industrial Training(after 4 <sup>th</sup> semester)		

<b>Semester VII</b>		<b>Semester VIII</b>	
Paper-1	Digital Signal Processing	Paper-1	Digital Image Processing
Paper-2	Agile Software Development	Paper-2	Embedded System Design
Paper-3	Compiler Design	Paper-3	Java Technologies
Paper-4	Elective-II (Choose any one from the following)	Paper-4	Elective-III (Choose any one from the following)
	a) Cloud Computing		a) Theory of Computation
	b) Artificial Intelligence		b) Soft Computing
	c) Principle of Telecommunication		c) Natural Language Processing
Paper-5	Project-I	Paper-5	Seminar
Paper-6	Industrial Training (after 6 <sup>th</sup> Semester)	Paper-6	Project II
Paper-7	Departmental Honors Course(III, IV, V) (Choose any three from the following)		OR
	a) Mobile Computing	Paper-7	Industrial Training 6 months
	b) Building Enterprise Applications		
	c) Mobile Apps Development		
	d) Machine Learning		
	e) Data Acquisition and Hardware Interfacing		
	f) Object Oriented Analysis and Design		
Paper-8	Minor Specialization Course -III		
	a) Machine Learning		
Paper-9	Minor Specialization Course -IV		
	a) Agile Software Development		
Paper-10	Minor Specialization Course -V		
	a) Project		
<b>B.E. (Electronics &amp; Communication Engineering)</b>			
<b>Semester-I</b>		<b>Semester-II</b>	
Paper-1	Calculus	Paper-1	Differential Equations and Transforms
Paper-2	Introduction to Electronics	Paper-2	Ethics and Self Awareness
Paper-3	Workshop	Paper-3	Physics Course 1
Paper-4	Applied Chemistry	Paper-4	Introduction to Environmental Science
Paper-5	Communication Skills	Paper-5	Analog Electronic Circuits – I
Paper-6	Computer Programming (MATLAB Programming for Engineers) / Computer Programming	Paper-6	Digital Design
<b>Semester-III</b>		<b>Semester-IV</b>	
Paper-1	Electrical Science	Paper-1	Linear Algebra & Complex Analysis
Paper-2	Electromagnetic Theory	Paper-2	Communication Engineering
Paper-3	Signals and Systems	Paper-3	Microcontroller & Interfacing
Paper-4	Microprocessor and Applications	Paper-4	Communication Theory
Paper-5	Analog Electronic Circuits -II	Paper-5	Engineering Analysis and Design: Virtual Instrumentation
Paper-6	Elective (Any one of the following)	Paper-6	Computer Networks
	1. Economics		
	2. Introduction to Psychology		
	3. Sociology		
	4. French Language		
	5. Russian Language		

<b>Semester-V</b>		<b>Semester-VI</b>	
Paper-1	VLSI Design	Paper-1	Microwave & Radar Engineering
Paper-2	Digital Signal Processing	Paper-2	Fiber Optic Communication Systems
Paper-3	Antennas & Wave Propagation	Paper-3	Digital Communication
Paper-4	Advanced Microprocessors	Paper-4	Departmental Elective Course-I <ul style="list-style-type: none"> <li>• Data Structures and Algorithms</li> <li>• Satellite Communications</li> <li>• Audio and Visual Systems</li> <li>• Data Acquisition and Hardware Interfacing</li> </ul>
Paper-5	Digital System Design	Paper-5	Open Elective (Any one subject offered by other branches)
Paper-6	Control Systems	Paper-6&7	Optional: Minor Specialization Courses or Departmental Honors Courses
<b>Semester-VII</b>		<b>Semester-VIII</b>	
Paper-1	Wireless & Mobile Communication	Paper-1&2	Elective (Any two of the following) <ol style="list-style-type: none"> <li>1. Neural Networks &amp; Fuzzy Logic</li> <li>2. Digital Image Processing</li> <li>3. Advanced Digital Signal Processing</li> <li>4. Advanced Digital Communication</li> <li>5. HDL based Systems</li> </ol>
Paper-2	Embedded System Design	Paper-3	Elective (Any one of the following) <ol style="list-style-type: none"> <li>1. Optical Networks</li> <li>2. MEMS and Microsystems</li> <li>3. High Speed Semiconductor Devices</li> <li>4. Imaging and Additive Manufacturing</li> </ol>
Paper-3	Departmental Elective Course-II (Any one of the following) <ol style="list-style-type: none"> <li>1. Operation Research</li> <li>2. Operating Systems</li> <li>3. Nano Technology</li> </ol>	Paper-4	Management Elective <ol style="list-style-type: none"> <li>1. Principles of Management</li> <li>2. Business Laws</li> <li>3. Entrepreneurship and Project Management</li> </ol>
Paper-4	Departmental Elective Course-III <ol style="list-style-type: none"> <li>1. Computer Architecture and Organization</li> <li>2. Artificial Intelligence</li> <li>3. High Speed Semiconductor Devices</li> </ol>		<b>Option-2</b> Industrial Training
Paper-5, 6 & 7	Optional: Minor Specialization Courses or Departmental Honors Courses		
<b>B.E. (BIOTECHNOLOGY)</b>			
<b>Semester-I</b>		<b>Semester-II</b>	
Paper-1	Calculus	Paper-1	Differential Equation and Transform
Paper-2	Basic Biology	Paper-2	Communication Skills
Paper-3	Computer Programming	Paper-3	General Chemistry
Paper-4	Physics Course 1	Paper-4	Workshop Practice
Paper-5	Ethics and Self Awareness	Paper-5	Basic Biotechnology
Paper-6	Introduction to Environment Science	Paper-6	Fundamentals of Biotechnology and Bioengineering
<b>Semester-III</b>		<b>Semester-IV</b>	
Paper-1	Process Calculations	Paper-1	Molecular Biology
Paper-2	Microbiology	Paper-2	Thermodynamics
Paper-3	Biochemistry	Paper-3	Chemical Reaction Engineering

Paper-4 Cell Biology & Genetics Paper-5 Linear Algebra and Operations Research Paper-6 Elective a. Economics b. Introduction to Psychology c. Sociology	Paper-4 Industrial Biotechnology Paper-5 Immunology & Immuno-technology
<b>Semester-V</b>	<b>Semester-VI</b>
Paper-1 Enzyme Engineering & Technology Paper-2 Bio-Process Engineering Paper-3 Animal Cell Culture & Biotechnology Paper-4 Transport Phenomena Paper-5 Bioinstrumentation Paper-6 Training of 4- 6 weeks after 4 <sup>th</sup> semester exams	Paper-1 Recombinant DNA Technology Paper-2 Bio-Informatics Paper-3 Bioreactor Design and Operation Paper-4 Down Stream Processing Paper-5 Open Elective (Biomaterials)
<b>Semester-VII</b>	<b>Semester-VIII</b>
Paper-1 Environmental Biotechnology Paper-2 Food Biotechnology Paper-3 Plant Tissue Culture Paper-4 Bio-analytical Techniques Paper-5 Minor Project Paper-6 Training of 4- 6 weeks after 6 <sup>th</sup> semester exams	Paper-1 Major Project Paper-2 Enzyme catalyzed Organic Synthesis Paper-3 Project Management and Entrepreneurship Paper-4 Modeling and Simulation of Bioprocesses Paper-5 Elective a. Nanobiotechnology b. Microbial Biodiversity
<b>B.E. (ELECTRICAL &amp; ELECTRONICS)</b>	
<b>Semester-I</b>	<b>Semester-II</b>
Paper-1 Calculus Paper-2 Introduction to electronics Paper-3 Applied Chemistry Paper-4 Communication Skill Paper-5 Basic Electrical Engineering Paper-6 Workshop Practice	Paper-1 Differential Equation and Transform Paper-2 Ethics and self awareness Paper-3 Physics Course I a. Oscillation and optics b. Quantum and statistical physics c. Physics of Materials Paper-4 Computer Programming Paper-5 Introduction to environment science Paper-6 Electrical Measurement and instrumentation Paper-7 Innovative product design (Summer Vacations training)
<b>Semester-III</b>	<b>Semester-IV</b>
Paper-1 Electric Machinery-I Paper-2 Network Analysis and Synthesis Paper-3 Analog and Digital Electronics Paper-4 Linear Algebra and Complex Analysis Paper-5 Elective (from Social Sciences) One of the following d. Economics e. Introduction to Psychology f. Sociology German Basics for Engineering Students	Paper-1 Numerical Analysis Paper-2 Electric Machinery-II Paper-3 Control Engineering Paper-4 Power Systems-I Paper-5 Microprocessor and Interfacing



<b>Semester-V</b>		<b>Semester-VI</b>	
Paper-1	Power Systems-II	Paper-1	Computer Aided Power Systems Analysis
Paper-2	Micro Controllers	Paper-2	Programmable Logic Controller and Distributed Control System
Paper-3	Communication Engineering	Paper-3	Signals and Systems
Paper-4	Electromagnetic Field Theory	Paper-4	Energy Management & auditing
Paper-5	Control Engineering-II	Paper-5	Power Electronics
Paper-6	Vocational Training after Fourth Semester		Subjects offered by DIC (OPTIONAL)
Paper-7	Principles of Designing and Engineering Processes	Paper-6	Sensors based Application Systems
	<b>Semester-VII</b>		<b>Semester-VIII</b>
Paper-1	Power Electronic and Drives	Option-I	Non – Conventional Energy Sources
Paper-2	Electrical Engineering material	Paper-1	Wireless Communication
Paper-3	Digital Signal Processing	Paper-2	Elective –II
Paper-4	Elective-I	Paper-3	a. Electrical Machine Design
	c. Electrical Traction		a. High Voltage AC-DC
	d. Electrical Power Generation		b. FACTS
	e. Electrical utilization and illumination		c. Embedded System Design
Paper-5	Minor Project	Paper-4	Elective –III
Paper-6	Seminar		a. Cyber Laws and IPR
Paper-7	Vocational Training after Sixth Semester		b. Marketing Management
			c. Financial Management
			d. Entrepreneurship and Project Management
		Paper-5	Major Project
			Option-II
		Paper-1	Six Month Industrial Training
<b>B.E(MECHANICAL)</b>			
<b>Semester-I</b>		<b>Semester-II</b>	
Paper-1	Calculus	Paper-1	Differential Equations and Transforms
Paper-2	Engineering Mechanics-I	Paper-2	Ethics and Self-Awareness
Paper-3	Introduction to Manufacturing Processes	Paper-3	Physics of Materials
Paper-4	Applied Chemistry	Paper-4	Engineering Mechanics-II
Paper-5	Communication Skills	Paper-5	Engineering Graphics
Paper-6	Introduction to Environmental Science	Paper-6	Computer Programming (MATLAB Programming for Engineers)
<b>Semester-III</b>		<b>Semester-IV</b>	
Paper-1	Applied Thermodynamics-I	Paper-1	Applied Thermodynamics-II
Paper-2	Mechanics of Materials-I	Paper-2	Mechanics of Materials-II
Paper-3	Theory of Machines-I	Paper-3	Theory of Machines-II
Paper-4	Machine Drawing	Paper-4	Numerical Analysis
Paper-5	Manufacturing Processes	Paper-5	Manufacturing Technology- I
Paper-6	Math-3	Paper-6	Fluid Mechanics
<b>Semester-V</b>		<b>Semester-VI</b>	
Paper-1	Design of Machine Elements-I	Paper-1	Design of Machine Elements -II
Paper-2	CAD/CAM (Computer Aided Design & Manufacturing)	Paper-2	Finite Element Methods
Paper-3	Robotics	Paper-3	Mechanical Vibrations
Paper-4	Mechanical Measurement	Paper-4	Heat Transfer

Paper-5 Manufacturing Technology- II Paper-6 Fluid Machinery Paper-7 Vocational Training-1 (After 4th Semester) Paper-8 Optional- Principles of Designing	Paper-5 Materials and Heat Treatment Paper-6 Non Conventional Manufacturing
<b>Semester-VII</b>	<b>Semester-VIII</b>
Paper-1 Refrigeration and Air Conditioning Paper-2 Automatic Controls Paper-3 Automobile Engineering Paper-4 Total Quality Management Paper-5 Minor Project Paper-6 Vocational Training after 6th semester Paper-7a <b>Elective-I</b> Thermal Plant Engineering b Gas Dynamics c Advanced Mechanics of Materials-I d Work Study e Mechanical Behavior of Materials-1 f Vehicle Dynamic g Materials Design h Renewable Energy Sources	Paper-1 Mechatronics Paper-2 Operation Research Paper-3 Computational Fluid Dynamics Paper-4a <b>Elective-II</b> Experimental Stress Analysis b Metrology c Mechanical Handling d Bearings and Lubrication e Plastic and Rubber Technology f Advanced Fluid Machinery g Production and Operations Management h Theory of elasticity & plasticity i Advanced Mechanics of Materials -2 j Advances in Engineering Materials k Mechanical Behavior of Materials-2 l Rotor Dynamics m Imaging And Additive manufacturing
<b>ME Computer Science and Engineering</b>	
<b>Semester I</b>	<b>Semester II</b>
Paper 1 Advance Algorithms Paper 2 Advance Databases Paper 3 Advance Computer Networks Paper 4 <b>Option: Any of the following</b> i. Software Testing and Quality Management ii. Advance Software Engineering iii. Project Management iv. Business Intelligence v. Building Enterprise Applications Paper 5 <b>Option: Any of the following</b> i. Advance Computer Architecture ii. Parallel and Distributed Computing iii. Cloud Computing iv. Modeling and Simulation	Paper 1 Digital Image Processing Paper 2 Research Methodology Paper 3 Soft Computing Paper 4 <b>Option: Any of the following</b> I. Data Warehousing and Mining II. Machine learning III. Data Acquisition and Hardware Interfacing  Paper 5 <b>Option: Any of the following</b> I. Network Security II. Multimedia Computing and Communications III. Wireless Networks IV. Telecommunication Technologies Paper 6 Research Seminar
<b>Semester III</b>	<b>Semester IV</b>
Paper 1 <b>Option: Any of the following</b> i. Natural Language Processing ii. Machine Vision iii. Open Source Software iv. Information Retrieval Paper 2 <b>Option: Any of the following</b> i. Cyber Laws & IPR ii. Business Process Re-Engineering iii. Technology Management iv. Human Resource Development and Training Methods Paper 3 Preliminary Thesis Work	Paper 1 Thesis

<b>M.E. (Electronics &amp; Communication Engineering)</b>			
<b>Semester-I</b>		<b>Semester-II</b>	
Paper-1	Advanced Digital Signal Processing	Paper-1	Embedded System Design
Paper-2	Fiber-Optic Communication Systems	Paper-2	Digital Image Processing
Paper-3	Advanced Digital Communication	Paper-3	Wireless & Mobile Communication
Paper-4	Digital System Design	Paper-4	Elective-II (Any one of the following) 1. Network Programming 2. PLC & SCADA 3. VLSI Design 4. Nano Electronics
Paper-5	Elective-I (Any one of the following) 1. Advanced Mathematics 2. Bioinformatics 3. Modeling & Simulation of Communication Systems 4. Information Theory & Coding	Paper-5	Elective -III (Any one of the following) 1. Advanced Computer Networks 2. Multimedia Communication 3. Satellite Communications 4. Design & Applications of New Materials 5. RF & Microwaves
Paper-6	Research Seminar-I	Paper-6	Research Seminar-II
<b>Semester-III</b>		<b>Semester-IV</b>	
Paper-1	Elective- IV (Any one of the following) 1. Neural Network & Fuzzy Logic 2. Simulation & Modeling 3. Smart Systems Technologies	Paper-1	Thesis
Paper-2	Elective-V (Any one of the following) 1. Advanced Antenna Systems 2. Cryptography & Network Security 3. Imaging and Additive Manufacturing 4. HRD & Training Methods 5. Research Methodology		
Paper-3	Preliminary Thesis Work		
<b>M.E. (Mechanical Engineering)</b>			
<b>Semester-I</b>		<b>Semester-II</b>	
Paper-1	Advanced Engineering Mathematics	Paper-1	Fluid Dynamics
Paper-2	Design of Experiments	Paper-2	Advanced Manufacturing Processes
Paper-3	Continuum Mechanics	Paper-3	Advances in Engineering Materials
Paper-4	Advanced Heat Transfer	Paper-4	Structural Dynamics
Paper-5	<b>Elective-I</b> a Quality Control and Reliability b Manufacturing Science c Welding Techniques d Tool and Cutter Design e Condition Monitoring and Fault Diagnosis f Industrial Tribology g Gas Dynamics	Paper-5	<b>Elective-II</b> a Advanced Mechanics of Materials b Experimental Stress Analysis c Mechanical Behavior of Materials d Composite Materials e Model Updating f Advanced Control System g Mechatronics h Imaging and Additive Manufacturing
<b>Semester-III</b>		<b>Semester-IV</b>	
Paper-1	Advanced Machine Design		Thesis

Paper-2	<b>Elective-III</b> a Finite Element Method b Modelling of Manufacturing Systems c Computational Fluid Dynamics d Vibration Testing e Optimization Techniques f Materials Design		
<b>M.Tech (Microelectronics)</b>			
<b>Semester-I</b>		<b>Semester-II</b>	
Paper-1	Semiconductor Device physics	Paper-1	Measurement and Characterization Techniques.
Paper-2	Integrated Circuit Technology.	Paper-2	Architecture of VLSI System.
Paper-3	MOS Integrated Circuit Modeling.	Paper-3	Analog and Mixed Signal Device Design.
Paper-4	Hardware Description Languages and VLSI Design.	Paper-4	Advanced Memory Technology and Design.
Paper-5	Elective- I (Any one of the following) 1. Computer Aided Design Methodologies and Tools. 2. Material Science & Engineering. 3. Embedded System Design	Paper-5	Elective- II (Any one of the following) 1. Digital Integrated Circuits and Systems. 2. MEMS and Microsystems. 3. RF and High Speed Digital Design
Paper-6	Research Seminar- I	Paper-6	Research Seminar-II
<b>Semester-III</b>		<b>Semester-IV</b>	
Paper-1	Low Power Digital CMOS Design	Paper-1	Thesis
Paper-2	Elective- III (Any one of the following) 1. Microelectronic Packaging and Testing 2. Nano Scale Devices and Systems		
Paper-3	Preliminary Thesis Work		
<b>ME (Information Technology)</b>			
<b>Semester I</b>		<b>Semester II</b>	
Paper- 1	Advanced Algorithm Analysis	Paper- 1	Agile Software Development
Paper- 2	Object oriented Analysis and Design	Paper- 2	Multimedia Systems
Paper- 3	Advanced Digital Signal Processing	Paper- 3	Embedded System Design
Paper- 4	Wireless and Mobile Communication	Paper- 4	Research Seminar II
Paper- 5	Information Security	Paper- 5	Any one of the following a) Research Methodology b) Advances in Soft Computing c) Theory of Computation
Paper- 6	Research Seminar I	Paper 6	Any one of the following a) Software Testing and Quality Management b) HRD and Training Methods c) Advanced Digital Image Processing
<b>Semester III</b>		<b>Semester IV</b>	
Paper- 1	Any one of the following a) Network Management and Security b) User Interface Design c) Cloud Computing	Paper 1	Thesis Work

Paper-2	Any one of the following a) Big Data and Analytics b) Advanced Data Mining c) Advanced Computer Networks	
Paper-3	Project Based Thesis Work - I	
<b>M.E. (ELECTRICAL &amp; ELECTRONICS)</b>		
<b>Semester I</b>		<b>Semester II</b>
Paper-1	Advanced Power System Analysis	Paper-1
Paper-2	Power System Operation And Control	Paper-2
Paper-3	Optimization Techniques	Paper-3
Paper-4	Digital Control Systems	Paper-4
Paper-5	Power Quality	Paper-4
		a. Advanced Power Electronic and Drives
		b. Modeling and analysis of Electrical Machines
		c. Applied Instrumentation
		Paper-5
		a. Advanced Power System Protection
		b. Fast Transients in Power Systems
		Paper-6
		Research Seminar
<b>Semester III</b>		<b>Semester IV</b>
Paper-1	Elective-III a. Power System Deregulation b. Power System Reliability	Paper-1
Paper-2	Elective-IV a. HVDC Transmission b. Flexible AC transmission Systems (FACTS)	Thesis
Paper-3	Preliminary Thesis	
<b>M.TECH MATERIAL SCIENCE &amp; TECHNOLOGY</b>		
<b>Semester I</b>		<b>Semester II</b>
Paper-1	Materials and their Properties	Paper-1
Paper-2	Material Characterization-MST-	Paper-2
Paper-3	Physics of Nano-materials	Paper-3
Paper-4	Thermodynamics MST	Paper-4
Paper-5	Research Methodology MST	Paper-5
<b>Semester III</b>		<b>Semester IV</b>
Paper-1	Magnetism and Super conductivity	Thesis Work
Paper-2	Nanomaterials	
Paper-3	Preliminary Thesis Work	
<b>M.E. (BIOTECHNOLOGY)</b>		
<b>Semester-I</b>		<b>Semester-II</b>
Paper-1	Advances in Biochemistry	Paper-1
Paper-2	Biotechniques	Paper-2
Paper-3	Microbial Biotechnology	Paper-3
Paper-4	Bioseparation and Bioprocess technology	Paper-4
Paper-5	Elective I	Paper-5
	a. Stem Cell Biology	Elective II
	b. Cell & Cell Technology	a. Advances in Biomaterials
	c. Food Processing and Biotechnology	b. Biopharmaceutical Technology
		c. Protein Engineering

Semester-III		Semester-IV	
Paper-1	Elective III a Nano Biotechnology and Nano Devices b Agriculture Biotechnology c Bioprocess Control & Instrumentation	Paper-1	Thesis Work – II
Paper-2	Elective IV a Biological Waste Water Engineering b Biostatistics & Computer Applications c Polymer Science & Engineering		
Paper-3	Thesis Work – I		

**THRUST AREAS:** Faculty is involved in research in thrust areas like Active Noise Control, Traffic Sensing and Information Technologies, Medical Devices and Restorative Technologies, Energy Harvesting and Management Technologies, Transparent Ceramic Material and Technologies, Medical Image Processing, Computer Networking, Cloud Computing, Nano-Materials, Stem Cells, Wireless Communications, Power Systems, Composite Materials etc.

**PLACEMENTS:** The objective of Training and Placement Cell (TPC) is to provide the best training and placement opportunities to students. Efforts are made by the dedicated members of the team to approach companies and to invite them on campus to recruit students and to provide them the internship opportunities. Over the past many years, UIET has built a strong relationship with many companies that visit UIET on regular basis to recruit students.

TPC also organizes special lectures and soft skills programmes regularly, wherein experts from industry are invited and they make students aware about the latest happenings in the industry and guide them about how to prepare for group discussion and appear for interviews, as soft skills play vital role in the selection process.

On an average, around 50 companies visit UIET every year and close to 370 offers are made to final year students who participate in the placement drive. The highest package offered to students hover around 12 LPA and the average package remains around 5 LPA.

Infosys is among our mass recruiters. Some of the companies that visit UIET are Deloitte, ZS Associates, Unisys, Sapient, SML ISUZU, Naraggo, Tech Mahindra, UTrade, Mu-Sigma, Zscaler, Jugnoo, Practo, Infogain, SUFI, Utrade, Spice Digital, XL Catlin, Net Solutions, AZCOM, Pernod Ricard, Root Analysis, Click Labs, Gemini Solutions, Quark.

**ALUMNI RELATIONS:** The Alumni Affairs Office for UIET was established in the year 2013. Since then our, we have successfully engaged with over 8000 plus alumni worldwide. The Alumni Affairs Office aims to establish a better alumni network with a vision to inspire and engage alumni in a mutually beneficial lifelong relationship for constant growth and development of UIET and its alumni network. Its mission is to enable intra -alumni network and foster alumni engagement through mentor-mentee relationship among current students as well as the alumni, to promote events & forums that add relevance and value to alumni network and to build a collaborative network of change agents which leads to positive impact on society. We are delighted to inform that we have been able to achieve most of our goals due to full dedication and hardwork presented by the Students Team for Alumni Relations and constant support by our faculty members. Here is a summary of the Events we have conducted so far and the tasks accomplished in the 3 year long run.

- **Alumni database :** The Alumni Affairs Office has successfully been able to gather and maintain an Alumni Database from the batches of 2006 to batches of 2016. Our aim is to keep the Alumni database up to date as much as possible, The Alumni database comprises of all the personal information related to our alumni ranging from name, contact no. to current location, company and job profile along with data for higher studies.
- **Successfully organised Alumni Interaction for Placements :** The Alumni Affairs Office has successfully organised 3 Alumni Interaction for placements. The Flagship event is organised for the 3rd year students of UIET every year in the month of August to provide the students aiming to get placed in the top companies, a heads-up with their GD and PI preparation for the placement drive. The event comprises of Mock GDs, modulated by the experienced UIET Alumni along with PIs comprising of Interview panel made up of UIET Alumni.
- **Technical Lecture for the students of UIET :** First in the series of academics oriented seminars ,was a technical Lecture delivered by Mr. Vipul Mehta of Oceaneering held on 24th January , 2017. He shared his thoughts about when a student is placed, he may end up in one of the various types of sub fields like design, manufacturing, R&D, purchase, etc each one having its own requirements. He gave details about the factors one should keep in mind while product manufacturing that is R&D, SCM (Supply Chain management), Quality of product, Design etc. The main topics

of discussion were Subsea Engineering, installation of oil well, electric power optical and chemical supply. He gave in depth knowledge to the students regarding the field.

- **Seminars for the students of UIET :** The Office has successfully organised many seminars for the students of UIET. These seminars range from technical lectures to informative interactions with experts and our experienced UIET Alumni. In 2016, we successfully organised 3 seminars-
  1. Career Advancement Convention- An interactive session was held at the campus of UIET, Panjab University on Sept 16, 2016 between the students of UIET and various experts in higher education and entrepreneurship. Career Advancement Convention was a workshop oriented towards mentoring students. This included talks on opportunities and way forward in industry, research and Higher Studies (Indian and Global), with a focus on how students can align themselves with a rapidly changing business and technical environment. The students were also made aware about the patterns and syllabi of various entrance exams they can take after their graduation.
  2. Automation - This talk themed “Automation” was held on Nov 7, 2016. The talk was delivered by Ashish Chawla who has been associated with UIET from 2003 (soon after UIET’s inception). He showed the students with the help of statistics, how robots and artificial intelligence is taking over the jobs humans used to do, and are doing them better than us. He suggested the students, to build their own parachute by having a good skill set because it is only their skill that is going to back them when they graduate. The world needs quality performers in the future, and there is no room for mistakes anymore.
  3. Basics of IP - The talk that was themed “Intellectual Property Rights” was held on Nov 7, 2016. The talk was delivered by Neha Dangi. Neha is a lawyer with over 6 years of experience, with a specialization in the area of Intellectual Property matters. The talk was organized to set the ball rolling for the new IPR Cell being started at the college. The cell aims to help students/research scholars at the college in getting legal advice and filing patents. She told the students how patents is a way by which the government protects an idea, in return for public disclosure of the same by the creator. She highlighted how it was a smart move to file a patent for anything that you may have a produced, and you think is unique. Since having a patent holds great value on a person’s profile, she explained how a patent uplifts the value of both, the idea and the creator of the idea. She also showed the students the basic application form for filing patents, various details that needed to be filled in and also covered aspects such as cost of patents, validity etc.
- **Active Role in NBA Accreditation:** The Office played its role in accreditation through maintaining the database for the UIET Alumni. The Office also invited Alumni from various fields to interact with the NBA committee for their feedback.
- **Setting up of IPR Cells for UIET:** The office has been constantly working towards setting up of a IPR Cell for the Btech students of UIET. The policy letter has already been drafted and sent for approval.
- **Scholarship Disbursement:** The policy for the scholarship disbursement to the deserving students of UIET has also been drafted and sent for approval.

All of this would not have been possible without consistent support and guidance from the college administration and the faculty. We express our gratitude towards the faculty and administration, and wish to see a much better year ahead.

## UNIVERSITY CENTRE OF INSTRUMENTATION AND MICROELECTRONICS (UCIM)

### ABOUT THE CENTRE

The University Centre of Instrumentation and Microelectronics (UCIM) was established in 1995 and offers M.Tech. (Instrumentation) and M.Sc. (Instrumentation) Courses, each of 2 years (4 semesters) duration. The objective of the centre is to generate trained manpower for Modern Sophisticated Instrumentation and for Microelectronics applications. The facilities available have been supplemented by combining with it the DST funded Sophisticated Analytical Instrumentation Facility (SAIF), Central Instrumentation Laboratory (CIL) and University Science Instrumentation Centre (USIC) which are housed in the same building.

### FACULTY

Designation	Name
Professor	Surinder Kumar Mehta ( <b>Director</b> )
Associate Professor	H.P.S.Kang
Assistant Professors	Poonam Kumari, Ramesh K. Sharma, Anil K. Sharma

**COURSES OFFERED (SEMESTER SYSTEM)**

Course	Seats	Duration	Eligibility *	Admission Criteria
M.Tech (Instrumentation)	10+3SC/ ST+2NRI	2 Years	Passed one of the following examinations from a recognized University: B.E./B.Tech. (Chemical / Computer / Electrical / Electronics / Mechanical / Production / Instrumentation / Bio-medical Engineering or equivalent degree /M.Sc. in Physics / Electronics / Instrumentation (as approved by AICTE) with minimum 50% marks in aggregate.	Based on GATE GATE Score: 50% Academic: 50%
M.Sc. (Instrumentation)	20	2 Years	B.Sc. (Physics / Electronics / Instrumentation Science / Computer Science / Vocational Physics / Electronics) OR B.E. (E&TC/Instrumentation/ Electrical and Electronics / Electronics & Electrical Communication Engineering) with minimum 50% marks in aggregate.	Based on Merit

\*5% Concession is admissible in eligibility marks to SC/ST/BC/PwD Candidates

**TITLES OF SYLLABI:** Detailed syllabi available at <http://puchd.ac.in/syllabus.php>.

**M.Tech (Instrumentation)**

Semester-I		Semester-II	
INS 61.01	Signal Processing-I	INS 62.01	Microprocessors in Instrumentation
INS 61.02	Analog & Digital Electronics	INS 62.02	Automatic Control System
INS 61.03	Transducers-I	INS 62.03	Analytical Instrumentation
INS 61.04	*Foundation of Measurement	INS 62.04	*Robotics
INS 61.05	*Photonics	INS 62.05	*Medical Instruments
INS 61.06	*Design of Mechanical Elements	INS 62.06	*Signal Processing-II
INS 61.07	*Process Dynamics & Control	INS 62.07	*Transducers-II
Semester-III		Semester-IV	
INS 71.01	*Computer Aided Design & Computer Aided Manufacturing	INS 72.01	Major Project & Thesis
INS 71.02	*Instrumentation for Special Applications		
INS 71.55	Major Project		
INS 71.03	*Selected Topics		
INS 71.04	*Virtual Instrumentation		
	*Elective Subject		

**M.Sc. (Instrumentation)**

Semester-I		Semester-II	
SEM PO 11	Sensors, Transducers and Actuators for Instrumentation	SEM PO 21	Microprocessor based Instrumentation & System Design
SEM PO 12	Signal conditioning, processing and interfacing techniques	SEM PO 22	Control System Design
SEM PO 13	Instrumentation components, devices and assemblies	SEM PO 23	Power Electronics
SEM PO 14	Principles of Test and Measuring Instruments	SEM PO 24	Process Control and Automation
SEM PO 15	Digital Electronics	SEM PO 25	Optical Instrumentation & Photonics



Semester-III		Semester-IV	
SEM PO 31	Biomedical Instrumentation	SEM PO 41	Seminars
SEM PO 32	Instrumental methods of Analysis	SEM PO 42	Comprehensive Viva
SEM PO 33	Advanced Fabrication Technique and Materials	SEM PO 43	Project Work & Project Report
SEM PO 34	Instrumentation Laboratory visit		
SEM PO 35	Project Work		

**THRUST AREA:** The Centre houses sophisticated instruments and facilities under SAIF viz-TEM, SEM, NMR, LC-MS/MS, XRD powder, CHN-SO, UV-VIS-NIR, WD-XRF, FTIR SPECTROMETER, LIQUID NITROZEN PLANT. The SAIF has undergone a rejuvenation phase by replacing some key instruments by state-of-art counterparts. The facilities of the centre go a long way in improving the quality of Research being carried out in Research Institutes and Universities in the entire region comprising the states of Punjab, Haryana, HP, UP, Rajasthan and even Eastern, Western and southern parts of the country. These facilities are also made available to the Industry. It also runs training programmes in technical skills for the benefit of scientific community and associated laboratory staff from different institutes.

**PLACEMENT:** The students in our department are less in number. Thus students are advised to submit their bio-data along with UIET students during the AVSAR UIET Job Fair conducted at University Campus.

**ALUMNI RELATIONS:** Department is endeavoring to have its alumni association.

## VII. FACULTY OF LANGUAGES

### DEPARTMENT OF CHINESE AND TIBETAN LANGUAGES

#### ABOUT THE DEPARTMENT

The Department of Chinese and Tibetan Languages was established in 1964 under the name of Central Asian Studies with the aim to teach Chinese language, Tibetan language and to provide language assistance for the research work undertaken in the respective thrust areas. It was renamed as Department of Chinese and Tibetan Languages in 2003. At present the department offers courses in Chinese and Tibetan. The department also provides research guidance in Chinese Language, Chinese Studies, Tibetan Language, Buddhist Studies. The faculty members participate regularly in national and international seminars and conferences.

#### FACULTY

Designation	Name	Field of Research Specialization
Professors	Damodar Panda Vijay Kumar Singh ( <b>Chairperson</b> )	Chinese Language, Chinese Studies Tibetan Language, Buddhist Studies

#### COURSES OFFERED (ANNUAL SYSTEM / SEMESTER SYSTEM)

Course	Seats	Duration	Eligibility*	Admission Criteria
Certificate in Chinese	57	1 Year	Minimum Intermediate/Higher Secondary/Pre-University/Plus-2 examination of the Board of School Education, Punjab/Haryana or Central Board of Secondary Education, Delhi.	Based on Merit
Diploma in Chinese	30	1 Year	Certificate in Chinese from any recognized University	Based on Merit
Advance Diploma in Chinese	25	1 Year	Diploma in Chinese from from any recognized University	Based on Merit
Certificate in Tibetan	57	1 Year	Minimum Intermediate/Hr. Sec./Pre- Univ./ Plus-2 examination of the Board of School Education, Punjab/ Haryana or Central Board of Secondary Education, Delhi.	Based on Merit

Diploma in Tibetan	17	1 Year	Certificate in Tibetan from any recognized University	Based on Merit
Diploma of Proficiency of Interpretership in Tibetan	11	1 Year	Diploma in Tibetan from any recognized University	Based on Merit
PG Diploma in Buddhist Studies	20	1 Year	Graduation in any discipline from any recognized University.	Based on Merit
M.A. Buddhist and Tibetan Studies	Private	2 Year	Graduation in any discipline from any recognized University.	
Ph.D. in Chinese /Chinese Studies	Subject to availability	3-6 Years	See M.Phil/Ph.D. Prospectus 2017	
Ph.D. in Tibetan/ Buddhist Studies	Subject to availability	3-6 Years	See M.Phil/Ph.D. Prospectus 2017	

\*5% Concession admissible in eligibility marks to SC/ST/BC/PwD) Candidates

**TITLES OF SYLLABI:** Detailed syllabi available at <http://puhcd.ac.in/syllabus.php>.

<b>Certificate in Chinese</b>				<b>Diploma in Chinese</b>			
Paper-1	Translation	Paper-2	Grammar and Essay	Paper-1	Translation	Paper-2	Grammar and Essay
Paper-3	Viva-Voce			Paper-3	Viva-Voce		
<b>Advance Diploma in Chinese</b>				<b>Certificate in Tibetan</b>			
Paper-1	Translation	Paper-2	Grammar and Essay	Paper-1	Translation	Paper-2	Grammar and History
Paper-3	Viva-Voce			Paper-3	Viva-Voce		
<b>Diploma in Tibetan</b>				<b>Diploma of Proficiency of Interpretership in Tibetan</b>			
Paper-1	Colloquial Tibetan and History of Tibet	Paper-2	Grammar and Composition	Paper-1	Translation & Transcription	Paper-2	History of Tibet and Composition
Paper-3	Viva-Voce			Paper-3	Viva-Voce		
<b>Post Graduate Diploma in Buddhist Studies</b>							
Paper-1	History & Philosophy Buddhism			Paper-2	Buddhist Language & Literature		
Paper-3	Contemporary Buddhism			Paper-4	Dissertation		

#### **M.A. Private (Buddhist and Tibetan Studies)**

<b>Semester-I</b>			
Paper-1	Buddhism in India		
Paper-3	Tibetan Grammar		
Paper-2	Indian Philosophy		
Paper-4	Translation		
<b>Semester-II</b>			
Paper-5	Buddhist Philosophy		
Paper-7	Early Buddhist Literature		
Paper-6	Himalayan and Mahayana Buddhism		
Paper-8	Dhammapada And Jataka Storie		
<b>Semester-III</b>			
Paper-9	Tibetan Language & Culture		
Paper-11	Ethics (Oriental and Occidental)		
Paper-10	Tibetan Buddhist Philosophy		
Paper-12	Later Mahayana and Buddhist Esoterism		
<b>Semester-IV</b>			
Paper-13	Philosophy of Language & Dialectics		
Paper-15	Buddhism in Tibet		
Paper-14	Buddhist Art and Architecture		
Paper-16	Buddhism in Translation		

**THRUST AREAS:** Chinese Language, Chinese Studies, Tibetan Language, Buddhist Studies.

**PLACEMENTS:** Department sensitizes the students for placements in educational institutions, private companies/MNCs.

**ALUMNI RELATIONS:** Department organizes alumni meet and guest lectures.

## DAYANAND CHAIR FOR VEDIC STUDIES

### ABOUT THE CHAIR

The department of Dayanand Chair for Vedic Studies was established in 1975. The aims and objects of the Chair include the research work on Vedas, Philosophy of Swami Dayanand and Vedic Interpretation of Dayanand. Contribution of Dayananda to Vedic Studies & Indian Philosophy is well known to the Sanskrit World. Research leading to PhD degree is conducted. Published Research work by the faculty in the journals of Vedic Studies contributes to the academic growth of the knowledge concerning various Vedic Texts.

There are two permanent positions in the faculty, one of a Professor and the other of a Assistant Professor. There is one tenure post of Research Fellow. At present Prof. Virendra Kumar Alankar is the Chairperson of the department.

### FACULTY

Designation	Name	Field of Research Specialization.
Professor	Virendra Kumar Alankar <b>(Acting Chairperson)</b>	Ved, Grammar, Darshan & Literature

### COURSE OFFERED (SEMESTER SYSTEM)

Course	Seats	Duration	Eligibility	Admission Criteria
Ph.D.	Subject to availability	3-6 Years	See M.Phil/Ph.D. Prospectus-2017	

**THRUST AREAS:** The research work on Vedas and Vedic Literature, Philosophy of Swami Dayananda and his interpretation of the Vedas and historical study of Arya Samaj & Vedic Thinkers.

## DEPARTMENT OF ENGLISH AND CULTURAL STUDIES

### ABOUT THE DEPARTMENT

The Department of English is one of the premier Centres of English in the country. It offers subjects ranging from Contemporary British Literature to Indian Writing in English, from World Literatures to contemporary Critical Approaches. It has a Language Laboratory with multi-media facilities. In addition, there is a Library which stocks relevant books on literature and language. Apart from imparting instruction at the Master's and Under-graduate (B.A./B.Sc. Hons.) levels, research work on a large scale in new and challenging areas is being conducted by the faculty as well as students.

The department organizes curricular and extra-curricular activities: Quiz Contests, Seminars, Declamation Contests, Group Discussions, Workshops and annual play productions. In addition, the Department brings out a peer-reviewed, international journal bi-annually, dialog. The faculty of the Department is actively engaged in research pursuits and each member has authored several books/research papers. The faculty includes several highly visible academics who have travelled extensively for academic purposes.

UGC-Special Assistance Programme (Departmental Research Support-I) had been sanctioned to the Department for 5 years—April 2011 to March 2016. UGC-Special Assistance Programme (Departmental Research Support-II) has also been awarded to the Department for 2016-21.

### FACULTY

Designation	Name	Field of Research Specialization
Professors	Pushpinder Syal	Linguistics, ELT, Indian, Australian and African Literature
Re-employed	Manju Jaidka	Poetry, American Literature
Professors	Pratibha Nagpal	Indian Writing in Translation, Cultural Studies
	Rumina Sethi	Postcolonial Theory, Indian Writing, Gender Studies
	<b>(Chairperson)</b>	
	Anil Raina	Literary Theory
	Rana Nayar	Drama/Theatre/Translation Studies/Literary Theory
	Harpreet Pruthi	Australian Literature, Shakespeare, Postcolonial Literature
	Lovelina Singh	American Literature/ European Literature
	Deepti Gupta	Linguistics, ELT
	Akshaya Kumar	Comparative Indian Literature, Cultural Studies
Asstt. Professors	Surbhi Goel	Cinema, Film Studies
	Meenu Gupta	Literary Theory, Poetry
	Sudhir Mehra	Dalit Literature

**COURSES OFFERED (SEMESTER SYSTEM)**

Course	Seats	Duration	Eligibility*	Admission Criteria
M.A.	95+5**+15NRI	2 Years	Passed one of the following qualifications from Panjab University or recognized University/Institute: Bachelor's Degree obtaining at least 45% marks in English Elective or English Compulsory subject OR Bachelor's Degree in any faculty obtaining 50% marks in the aggregate. OR B.A. with (Hons.) in English. OR B.A./B.Sc. with (Hons.) in subject other than English obtaining at least 50% marks in aggregate. OR Masters Degree in any other subject with 50% marks in aggregate.	Based on PU-CET(PG) Academics : 50% PU-CET(PG) : 50% Minimum marks to qualify Entrance Test :35%
English Proficiency Course	25	20 Days***	10+2 in any stream.	
M.Phil.	20+2 (NRI)	1 Year	See M.Phil./Ph.D. Prospectus-2017	
Ph.D.	10	3-6 Years	See M.Phil./Ph.D. Prospectus-2017	
*5% Concession admissible in eligibility marks to SC/ST/BC/PwD) Candidates **5 seats reserved for Vocational subject (Functional English) ***(taught course)+Online Component				

**TITLES OF SYLLABI:** Detailed syllabi available at <http://puchd.ac.in/syllabus.php>.

**M. A.**

Semester I		Semester II	
Paper-1	Literary Criticism- I	Paper-1	Literary Criticism- II
Paper-2	British Poetry-I	Paper-2	British Poetry-II
Paper-3	British Drama-I	Paper-3	British Drama-II
Paper-4	British Fiction-I	Paper-4	British Fiction-II
Semester III		Semester IV	
Paper-1	Literary Theory- I	Paper-1	Literary Theory- II
Paper-2	Indian Writing in English	Paper-2	Indian Writing in Translation
Paper-3 (Optiona)	Postcolonial Studies-I (opt. i) Linguistics-I (opt. ii) American Literature-I (opt. iii) (from 1800 to the present) Indian Literary Criticism and Theory-I (opt. iv)	Paper-3 (Options)	Postcolonial Studies-II (opt. i) Linguistics-II (opt. ii) American Literature-II (opt. iii) Indian Literary Criticism and Theory-II (opt. iv)
Paper-4 (Options)	Cultural Studies – I (opt. i) Applied Linguistics-I (opt. ii) World Drama in Translation (opt. iii) Shakespeare-I(opt. iv)	Paper-4 (Options)	Cultural Studies – II (opt. i) Applied Linguistics-II (opt. ii) World Drama in Translation (opt. iii) Shakespeare-II (opt. iv)

**English Proficiency Course:** The English Proficiency Course is a course for the development of English language skills (Listening, Speaking, Reading and Writing). It aims to provide practice in the exercise of all these skills leading to the proficient and effective use of the English language. The course is in two parts: a taught component run by the Department of English and Cultural Studies, Panjab University to initiate and provide face-to-face interaction, and an online component from 'Skills Anytime' to provide individualised learning pathways for language development according to the level of each learner. The course is open to both international and Indian students of Panjab University.

**Skill Areas:**

1. Listening : Tasks and activities from recorded material
2. Speaking: Practice of Spoken English in situations: Speech Sounds, stress and tone
3. Reading: Exercises in reading comprehension
4. Writing: Basic writing tasks e.g. description, note-making, letters

**THRUST AREAS:** The Department concentrates on a wide range of subjects which includes: British Literature (Poetry, Prose, Fiction and Drama), American Literature, World Literature, Post-Colonial writings, Critical Theory, Australian Literature, Linguistics & Communication Skills, Feminism (Theory & Practice) Film & Media, Discourse and Cultural Studies.

**PLACEMENT:** Every year, some of our students opt for teaching jobs in schools, colleges and universities. A small number begins the tough task of competing in the examination process for the all-India and state level civil services. The department attracts requests for recruitment from diverse employers such as the Indian Air Force for content writers, PR agencies such as Quick Relations, The Hindustan Times, The Tribune, The Times of India and HR organisations such as placement consultants. A fair amount of students are recruited by private institutes such as Grey Matters and British Counsel.

**ALUMNI RELATIONS:** The Department has a strong base and abiding relationship with its alumni. Meetings, blood donation camps and cultural events are organized yearly. Yearly scholarships are given to needy students by the alumni.

**DEPARTMENT OF FRENCH AND FRANCOPHONE STUDIES****ABOUT THE DEPARTMENT**

After having shifted to Chandigarh in 1957 the Department of French & Francophone Studies has grown steadily, and is the most vibrant among foreign language departments. It is the only department among Indian universities in the North of Delhi which offers courses of all levels from Certificate to M.A and Ph.D. In an endeavor to keep pace with the changing times, and to participate in economic development, the course contents are revised and new components introduced from time to time. The infrastructure is continuously being upgraded and computers and projectors are also used in classrooms besides other audio-visual aids in foreign language teaching. New books are added every year to the department library 'Bibliothèque Michel Dèon' named after the renowned writer and member of Académie Française, Michel Deon.

The department arranges lectures by eminent scholars, encourages participation in extracurricular activities and organizes competitions under the aegis of the French Literary Society, of which all enrolled students become members. Many of our alumni have got placement in good multinational companies as well as in universities, colleges and schools in the country. The faculty participates regularly in national and international conferences to present papers and update skills.

**FACULTY**

Designation	Name	Field of Research Specialization
Professor	Cecilia Antony	Theatre (XXth Century)
Associate Professors	M.G. Singh	Linguistics
Re-employed	Gunita Randhawa	Translation
Assistant Professor	Ramnik Aurora (Chairperson)	Travel Literature

**COURSES OFFERED (ANNUAL SYSTEM / SEMESTER SYSTEM)**

Courses	Seats	Duration	Eligibility*	Admission Criteria
Certificate	200 + 20 NRI	1 Year	Minimum +2 examination of the Board of School Education, Punjab/Haryana or Central Board of Secondary Education, Delhi. OR any examination of another University/Board/Body recognized by the Syndicate as equivalent	Based on Merit
Diploma	50 + 5 NRI	1 Year	Certificate course in French/B.A.I with French elective/A2 de L Alliance Francaise /Equivalent exam. recognized by P.U.	Based on Merit

Advanced Diploma	29 + 3 NRI	1 Year	Diploma Course in French / B.A.II with French Elective/equivalent exam. recognized by P.U /B1 de L Alliance Francaise.	Based on Merit
M.A.**	17 + 2 NRI	2 Years (4 Semesters)	Passed one of the following examinations from a recognized University: A Bachelor's Degree obtaining atleast 45% Marks in French or 50% Marks in the the aggregate. OR B.A. (Hons) in French or B.Sc.(Hons.) course from a recognized University. OR A Bachelor's Degree with 50% marks having knowledge of French equivalent to that of Graduation level /Advanced Diploma from a recognized University. OR A Bachelor's Degree having knowledge of French equivalent to that of Graduation level/Advanced Diploma with 45% Marks from a recognized University. OR Master's degree in any other subject having knowledge of French equivalent to that of Graduation level/Advance Diploma from a recognized University	Based on Merit
Ph.D.	3	3-6 Years	See M.Phil./Ph.D. Prospectus-2017	
* 5% Concession admissible in eligibility marks to SC/ST/BC/PwD Candidates ** A candidate shall apply for M.A. in French only if he/she has knowledge of the language				

**TITLES OF SYLLABI:** Detailed syllabi available at <http://puchd.ac.in/syllabus.php>.

#### CERTIFICATE COURSE

PAPER-1 Composition, Translation & Civilization PAPER-2 Grammar & Comprehension	PAPER-3 Conversation, Oral Comprehension & Reading PAPER-4 Internal Assessment
<b>DIPLOMA COURSE</b> PAPER-1 Composition, Letter writing & Grammar PAPER-2 Literature, Civilization, Comprehension & Translation	PAPER-3 Reading, Conversation & Question- Answers PAPER-4 Internal Assessment
<b>ADVANCED DIPLOMA</b> PAPER-1 Grammar, Comprehension and Text PAPER-2 Drama & Short Story	PAPER-3 Civilization, Precis and Written Expression PAPER-4 Viva -voce and Internal Assessment

#### M.A.

Semester-I		Semester-II	
FRH 101	History of French Literature (16 <sup>th</sup> & 17 <sup>th</sup> centuries)	FRC 201	French Civilization (Geography, History French Revolution onwards)
FRL 102	Linguistics	FRL 202	Linguistics (Structural linguistics)
FRD 103	French Drama (17 <sup>th</sup> & 18 <sup>th</sup> centuries)	FRD 203	French Drama (19 <sup>th</sup> 20 <sup>th</sup> centuries)
FRT 104	Translation (Theory & Commentary)	FRT 204	Translation (Theory & applied)
Semester-III		Semester-IV	
FRC 301	French civilisation (cinema, music, beaux-arts)	FRH 401	History of French Literature (18 <sup>th</sup> , 19 <sup>th</sup> , 20 <sup>th</sup> centuries)
FRP 302	French Poetry (17 <sup>th</sup> & 19 <sup>th</sup> centuries)	FRP 402	French Poetry (20 <sup>th</sup> century)
FRN 303	French Novel (18 <sup>th</sup> & 19 <sup>th</sup> centuries)	FRF 403	French & Francophone Novel, (20 <sup>th</sup> Century)
FRM 304	Methodology of teaching French	FRM 404	Methodology of teaching French

**THRUST AREAS :** French Language & Literature, Francophone Literature, Travel Literature, Translation.

**PLACEMENT:** There is a Placement Cell with a placement incharge which informs students about jobs available Vacancies are notified on the Notice Board, through email etc.

**ALUMNI RELATIONS:** Alumni meets are organized by the department and old students are invited regularly to interact and share their experience.

## DEPARTMENT OF GERMAN

### ABOUT THE DEPARTMENT

The Department of German was established in 1960. Starting with the elementary courses in the evening, the Department today offers Certificate, Diploma and Advanced Diploma Courses, and Ph.D. programme in German. The Department of German is the biggest German department among the universities of Punjab, Haryana, Himachal Pradesh, J & K and Uttarakhand. Many students of the Department have received scholarships for higher studies in Germany in various fields. Through the CIIPP Cell of the University, the Department of German provides translation support. The faculty members participate regularly in national and international seminars, workshops and conferences to promote German language, literature and cultural studies and update their skills to teach the language.

### FACULTY

Designation	Name	Field of Research Specialization
Associate Professor	Jeewan Kumar Sharma	Language/ Translation
Assistant Professor	Arijit Dakshi ( <b>Chairperson</b> )	Language/ Literature

### COURSES OFFERED (ANNUAL SYSTEM)

Course	Seats	Duration	Eligibility*	Admission Criteria
Certificate Course	130	1 Year	Minimum Hr. Sec./Pre-Uni./+2 or equivalent or 3 years Diploma from Indo-Swiss Trg. Centre.	Based on Merit
Diploma Course	30	1 Year	Cert. Course in German/B.A.-1 with German elective/ equivalent exam recognized by P.U. (A2) Course of Goethe Institute, Max Mueller Bhavan. The students passing minimum level of A-2 examination of Goethe Institute/Max Mueller Bhavan will be admitted to Diploma course in German.	Based on Merit
Advanced Diploma Course	20	1 Year	Diploma course in German/ equivalent exam. recognized by P.U. (B2) Course of Goethe Institute, Max Muller Bhavan. The students passing minimum level of B2 exmanations of Goethe Institute/ Max Mueller Bhavan will be admitted to Advanced Diploma Course in German.	Based on Merit
Ph.D	-	3-6 Years	See M.Phil/Ph.D Prospectus 2017	
*5% Concession is admissible in eligibility marks to SC/ST/BC/PwD Candidates				

**TITLES OF SYLLABI:** Detailed syllabi available at <http://puchd.ac.in/syllabus.php>.

**A. Certificate Course in German**

Summary: Beginner's conversation and self-introduction, basic grammar, reading, simple essay and translation.

**B. Diploma Course in German**

Summary: Conversation, advanced grammar, reading, essay and translation.

**C. Advanced Diploma Course in German**

Summary: Specialized discussions, analysis of complex texts, novel, play, essay and advanced translation.

**THRUST AREAS:** German Language, Literature and Translation.

**PLACEMENTS:** Department sensitizes the students for placements in educational institutions, private companies/MNCs.

**ALUMNI RELATIONS:** Annual Day celebrations, guest lectures and placements.

## GURU RAVI DASS CHAIR OF SANT SAHITYA STUDIES

### ABOUT THE CHAIR

Guru Ravi Dass Chair of Sant Sahitya Studies is set up to study and research on various aspects of the life, work and teachings of the mystic poet, thinker and philosopher of 15<sup>th</sup> century Bhakti Movement, Guru Ravi Das. Often given the honorific title of 'bhagat' or 'saint', Guru Ravi Das is attributed with a large body of hymns, verses and poems that speak of universal brotherhood, tolerance, socialism, secularism, equality and breaking of caste and gender based hierarchies. Special emphasis is also laid on the study and research of Medieval Indian Sant Sahitya. The Chair encourages subject specific as well as comparative study and research of all Medieval Indian literature.

### FACULTY

Designation	Name	Field of Research Specialization
Professor	Pratibha Nagpal <b>(Chairperson)</b>	Ved, Grammar, Darshan & Literature

### COURSE OFFERED

Course	Seats	Duration	Eligibility	Admission Criteria
Ph.D	Subject to availability	3-6 Years	See M.Phil/Ph.D Prospectus -2017	

## DEPARTMENT OF HINDI

### ABOUT THE DEPARTMENT

The Department of Hindi was established in 1938. It is one of the oldest Hindi Departments in the country. During early Sixties, the legendary scholar, Acharya Hazari Prasad Dwivedi joined the Department as the Head. Since then, the Department has undoubtedly been one of the major centers of Hindi Studies in the country. The department provides good infrastructure, including computerization and Departmental Library for students and researchers. The Department has obvious contribution towards research in Hindi Studies through the works of Acharya Hazari Prasad Dwivedi, Dr. Ganpati Chander Gupta, Dr. Ramesh Kuntal Megh, Dr. Indernath Madan, Dr. Dharam Pal Maini, its great teachers. The Department has been publishing a leading national journal of Research namely, 'Parishodh.' Well-known Hindi writers such as Mohan Rakesh, Ravinder Kalia, Dr. Ganga Prasad Vimal, Dr. Virendra Mehendiratta, Dr. Paresh, and Dr. Atul Vir Arora have been among its students.

### FACULTY

Designation	Name	Field of Research Specialization
Professors	Neerja Sood	Katha Sahitya
	Bajinath Prasad	Bhakti Kavya
Associate Professors	Satya Pal Sehgal	Aadhunik Hindi Sahitya
	Ashok Kumar <b>(Chairperson)</b>	Bhakti Kavya
Assistant Professors	Gurmeet Singh	Katha Sahitya

### COURSES OFFERED (SEMESTER SYSTEM / ANNUAL SYSTEM)

Course	Seats	Duration	Eligibility*	Admission Criteria
M. A.	68+7 NRI	2 Years	Passed one of the following qualifications from a recognized University/ Institute: Bachelor's Degree obtaining 45% marks in Hindi or 50% in the aggregate provided the candidate has passed Hindi as an Elective/ Compulsory Subject. OR B.A. with (Hons) in Hindi or B.Sc. with (Hons. School Course) OR Bachelor's Degree obtaining 45% marks in Sanskrit (Elective) or Shastri examination (New Course) OR Prabhakar examination Securing 45% marks (out of aggregate excluding the additional paper) OR Master's Degree Examination in any subject provided the candidate has studied Hindi Compulsory and Sanskrit at Graduate level.	Based on merit. Preference will be given to those who have studied Hindi (Elective), Hindi (Compulsory) and Sanskrit at Graduation level)



Diploma Course in Translation (English to Hindi)	68	1 Year (Annual)	Bachelor's Degree or equivalent Exam from a recognized University.	Based on Aptitude Test. Academic: 50% Written Test:50%
Ph. D.	14	3- 6 Years	See M Phil/Ph.d prospectus 2017	
*5% Concession is admissible in eligibility marks to SC/ST/BC/PwD Candidates.				

**TITLES OF SYLLABI:** Detailed syllabi available at <http://puchd.ac.in/syllabus.php>.

#### M.A.

Semester-I		Semester-II	
Paper-1	HSM(Hindi Sahitya Ka Aadikal or Madyakal)	Paper-1	HSK(Hindi Sahitya Ka Aadhunik kal)
Paper-2	AHK(Aadhunik Hindi Kavya)	Paper-2	AHK(Aadhunik Hindi Kavya)
Paper-3	AGS(Aadhunik Hindi Gadhya Sahitya)	Paper-3	AGS(Aadhunik Hindi Gadhya Sahitya)
Paper-4	BKS(Bhartiya Kavya Shastra Ke Sidhant)	Paper-4	PKS(Pashchatya Kavya Shastra Avem Samkaleen Aalochna Sidhant)
Semester-III		Semester-IV	
Paper-1	BHV(Bhasha Vigyan Avem Hindi Bhasha)	Paper-1	BHV(Bhasha Vigyan Avem Hindi Bhasha Ka Adhyan)
Paper-2	PMK(Pracheen Avem Madhya Kaleen Kavya)	Paper-2	PMK(Pracheen Avem Madhya Kaleen Kavya)
Paper-3	1. TSA(Tulsidass ke Sahitya Ka Adhyayan) 2. SAK (Surdas Avem Anya Krishan Bhagat Kavi) 3. HUP(Hindi Upnayas) 4. HNK(Hindi Natak) 5. HPS(Hindi Paterkarita ka Sawroop Aur Vikas)	Paper-3	1. TSA(Tulsidass ke Sahitya Ka Adhyayan) 2. SAK (Surdas Avem Anya Krishan Bhagat Kavi) 3. HUP (Hindi Upnayas) 4. HNK (Hindi Natak) 5. VHP (Vyabharik Hindi Paterkarita)
Paper-4	MLA (Media Lekhan Aur Anuvad)	Paper-4	BAS (Bhartiya Sahitya)

**THRUST AREA :**Medieval and Modern Hindi Literature, Indian Poetics. Specialization: Philology, Tradition of Hindi Ram Kavya, Hindi Fiction, Modern Hindi Poetry and Prose etc.

### DEPARTMENT OF PUNJABI

#### ABOUT THE DEPARTMENT

The Department of Punjabi was established in 1948 with its Campus at Khalsa College, Amritsar. Later on, it was shifted to Panjab University Campus in 1957. Its founder head Dr. Mohan Singh Diwana was eminent scholar of Persian, Sanskrit, Punjabi and oriental languages. The pioneer work of compilation of historiography and history of Punjabi literature was initiated by him and completed by the faculty of the Department of Punjabi into three volumes, Professor Surinder Singh Kohli, Prof. Harnam Singh Shaan, Prof. Vishwa Nath Tiwari, Prof. Attar Singh, Dr. Balbir Singh Sandhu and Prof. Kesar Singh Kesar, etc. the scholars of repute in Punjabi Literary world, have enriched the intellectual strength of department with their expertise. This Department is a premier institution in the Northern-India. At present, all faculty members are well-known in their areas of specialization and research. In the past, many National and International level seminars and, two World Punjabi Conferences were organized. Extension Lectures of eminent scholars in their research areas have been invited from time to time. At present, Prof. Sukhdev Singh, Prof. Yograj and Dr. Sarabjit Singh have their expertise in the study of Modern Punjabi Literature. Prof. Nahar Singh, has significantly contributed in the areas of Culture and Folklore. The Publication of bi-annual Research Journal 'Parkh' is restarted, after a long gap. The ISSN number of this research journal is 2320-9690.

#### FACULTY

Designation	Name	Field of Research Specialization
Professor (Re-employed)	Nahar Singh	Culture & Folklore
Professors	Uma Sethi <b>(Chairperson)</b> Sukhdev Singh Yograj Angrish	Modern & Medieval Punjabi Poetry and Literary Criticism Modern Punjabi Poetry and Literary Criticism
Associate Professor	Sarabjit Singh	Modern Punjabi Poetry

**COURSES OFFERED (SEMESTER SYSTEM / ANNUAL SYSTEM)**

Course	Seats	Duration	Eligibility*	Admission Criteria
M.A.	68	2 Years	Passed one of the following examinations from a recognized University/Institute: Bachelor's Degree obtaining at least 45% marks in the subject of Post-Graduate course or 50% marks in aggregate provided the candidate has passed Punjabi as an elective or literature subject. OR B.A. with (Hons) in Post-Graduate course or B.Sc. (Hons.) Course OR Master's degree examination in any other subject provided the candidate has studied Punjabi compulsory at graduate level	Based on Merit
Cert. Course in Functional Punjabi	31+4 NRI	1 Year (Annual)	+2/B.A./Old F.A./equivalent without Punjabi	Based on Merit
Diploma in Punjabi Language & Culture	17+2 NRI	1 Year (Annual)	B.A. / B.Sc. without Pbi. or equivalent exam. OR Pass Cert. Course in Func. Punjabi.	Based on Merit
Diploma in Translation (Eng. to Punjabi)	11	1 Year (Annual)	B.A. or equivalent exam.	Based on Merit
M. Phil (SGGS)	10	1 Year	M.A. in any discipline with 55% marks	Based on Departmental Test Academic: 60%** Test: 35% Interview: 5%
M.Phil (Punjabi)	15	1 Year	See M.Phil/Ph.D Prospectus 2017	
Ph.D	Subject to avail ability	3-6 years	See M.Phil/Ph.D Prospectus 2017	
*5% Concession is admissible in eligibility marks to SC/ST/BC/PwD Candidates **Intermediate: 10%, B.A.: 20%, M.A.:30%)				

**TITLES OF SYLLABI:** Detailed syllabi available at <http://puchd.ac.in/syllabus.php>.

**M.A.**

Semester-I		Semester-II	
Paper-1	Madhkali Pbi. Sahit da Itihas	Paper-1	Adhunik Pbi. Sahit da Itihas
Paper-2	Sahit Sidhant, Sanatani Kaav Shastar ate Pbi Alochna	Paper-2	Adhunik paschami Kav Shastar ate Viharak Alochna
Paper-3	Madhkali Pbi. Kaav -I Opt (i) Gurmat ate Sufi Kaav Opt (ii)	Paper-3	Madhkali Pbi. Kaav -II Opt (i) Sufi, Kissa ate Bir Kaav Opt (ii)
Paper-4	Punjabi Novel da Adhiyan Opt (i) Punjabi Kahani da Adhiyan Opt (ii)	Paper-4	Punjabi Novel da Adhiyan Opt (i) Punjabi ate Parvasi Punjabi Kahani da Adhian Opt (ii)
Hons.Paper-5	Guru Nanak Bani - Deeragh Adhiyan	Hons.Paper-5	Varis Shah - Deeragh Adhiyan
Hons.Paper-6	Pra-alochana Ate Punjabi Purav Marxvadi Alochna da Adhyan	Hons.Paper-6	Uttar Marxvadi Punjabi Alochna da Adhiyan
Semester-III		Semester-IV	
Paper-1	Bhasha Vigyan ate Punjabi Bhasha	Paper-1	Bhasha Vigyan, Punjabi Bhasha ate Gurmukhi Lipi
Paper-2	Sabiachar, Lokdhara ate Punjabi Sabiachar	Paper-2	Punjabi Lokdhara ate Lok Sahit
Paper-3	Adhunik Punjabi Kavita-I Opt (i) Adhunik Punjabi Birtantank Kavita-I Opt (ii)	Paper-3	Adhunik Punjabi Kavita-II Opt (i) Adhunik Birtantank Punjabi Kavita-II Opt (ii)
Paper-4	Punjabi Natak ate Rangmanch da Adhiyan - I Opt (i) Vishaw Da Anuvadit Natak Opt (ii)	Paper-4	Punjabi Natak ate Rangmanch da Adhiyan - II Opt (i) Punjabi Vich Anuvadit Vishav da Natak Opt (ii) Punjabi Vartak da Adhiyan Opt (iii)
Hons.Paper-5	Shah Husain - Deeragh Adhiyan	Hons.Paper-5	Bhai Vir Singh - Deeragh Adhiyan
Hons.Paper-6	Pakistani Punjabi Sahit	Hons.Paper-6	Parvasi Punjabi Sahit

**Diploma in Translation (English to Punjabi)**

Paper-1	Principals and Problems of Translation	Paper-3	Practical Translation and Related Problems
Paper-2	Problems of Vocabulary and Technical Terminology		

**PLACEMENT** : The faculty provides guidance to the students regarding their carrier for getting jobs in teaching, translation and journalism. Placement cell will be organized in the department at the earliest.

**ALUMNI RELATIONS** : Alumni meet will be organized from the next session. This meet will give an opportunity to all our alumni to interact with the students.

**BHAI VIR SINGH CHAIR IN MODERN LITERATURE****FACULTY**

<b>Designation</b>	<b>Name</b>
Professor	Vacant (Charge with Chairperson, School of Punjabi Studies)

**SHEIKH BABA FARID CHAIR OF MEDIEVAL INDIAN LITERATURE****ABOUT THE CHAIR**

The Chair was established in 1976 and is devoted primarily to the study of Medieval Indian Literature with emphasis on comparative studies in Medieval North Indian Literatures especially Urdu and Hindi.

**FACULTY**

<b>Designation</b>	<b>Name</b>
Professor	Vacant (Charge with Chairperson, School of Punjabi Studies)

**COURSE OFFERED (SEMESTER SYSTEM)**

Course	Seats	Duration	Eligibility*
Ph.D.	Subject to availability	3-6 Years	See M.Phil/Ph.D. Prospectus 2017

**PUNJABI LEXICOGRAPHY****ABOUT THE DEPARTMENT**

The Department was established in 1972. The Department has undertaken three projects.

1. English-Punjabi Dictionary
2. Punjabi-English Dictionary
3. Punjabi-Punjabi Dictionary

**FACULTY**

<b>Designation</b>	<b>Name</b>
Professor	Uma Sethi (Chairperson, School of Punjabi Studies)
Assistant Professor	Akwinder Kaur Tanvi

**NEW PROJECTS**

1. Punjabi Natak Alochna Shabadavali Kosh (Published by the Publication Bureau, Panjab University, Chandigarh in 2015)
2. Kav Alochna Shabadavali Kosh

**THRUST AREAS:** English-Punjabi Dictionary is being completed up to Letter 'T', Punjabi-English Dictionary to be revised and the compilation of first eight letters of Punjabi-Punjabi Dictionary.

**DEPARTMENT OF RUSSIAN****ABOUT THE DEPARTMENT**

The Department was established in 1959. Russian Language is taught at Certificate, Diploma, Advanced Diploma, M.A. and Ph. D. level. The department is equipped with 11 seater language laboratory which imparts instructions in phonetics of Russian and Slovak languages. It has also appropriate Audio-visual equipments to acquaint the students with the life and culture of the people of Russia and Slovakia through slides and film shows in the department. The department of Russian also arranges cultural evening programmes with distinguished literary personalities from Russia, CIS countries and Slovakia to widen the cultural and literary horizon of its students.

**FACULTY**

<b>Designation</b>	<b>Name</b>	<b>Field of Research Specialization</b>
Professor	Pankaj Malviya	Russian Language, Literature & Translation

**COURSES OFFERED (ANNUAL SYSTEM)**

Course	Seats	Duration	Eligibility *	Admission Criteria
Certificate Course	114	1 Year	Minimum 10+2 examination of the Board of School Education, Punjab /Haryana or Central Board of Secondary Education, Delhi.	Based on Merit
Diploma Course	29	1 Year	Cert. course in Russian or equivalent from a recognized University/Institute	Based on Merit
Advanced Diploma Course	17	1 Year	Diploma Course in Russian or equivalent from a recognized University/Institute	Based on Merit
M.A.(Russian) Private	Private	2 Years	Adv. Dip in Russian & Graduation in any discipline from a recognized University/Institute	Based on Merit
Ph.D.	Subject to availability	3-6 Years	See M.Phil/Ph.D Prospectus 2017	

\* 5% Concession is admissible in eligibility marks to SC/ST/BC/PwD Candidates.

**TITLES OF SYLLABI** (Detailed course curriculum is available at [www.puchd.ac.in/syllabus.php](http://www.puchd.ac.in/syllabus.php))

Certificate		Diploma		Adv. Diploma	
Paper-1	Translation	Paper-1	Translation	Paper-1	Translation
Paper-2	Grammar, Composition & Comprehension	Paper-2	Grammar, Composition & Comprehension	Paper-2	19 <sup>th</sup> & 20 <sup>th</sup> Century Russian Literature & Grammar
Paper-3	Oral/Practical	Paper-3	Oral/Practical	Paper-3	Oral/Practical

**M.A. Russian**

Semester-I		Semester-II	
Paper-1	19 <sup>th</sup> century Russian Literature	Paper-1	19 <sup>th</sup> century Russian Literature
Paper-2	Translation	Paper-2	Translation
Paper-3	Modern Russian Language(Morphology)	Paper-3	Modern Russian Language (Morphology)
Paper-4	Modern Russian Language (Phonetics, Lexicology & Phraseology)	Paper-4	Modern Russian Language (Phonetics, Lexicology & Phraseology)
Semester III		Semester-IV	
Paper-1	Culture & Civilization of Russia	Paper-1	Culture & Civilization of Russia
Paper-2	Modern Russian Language (Syntax)	Paper-2	Modern Russian Language (Syntax)
Paper-3	20 <sup>th</sup> Century Russian Literature	Paper-3	20 <sup>th</sup> Century Russian Literature
Paper-4	Methodology of teaching of Russian Language.	Paper-4	Methodology of teaching of Russian Language.

**THRUST AREAS:** Translation Technique, Comparative Study of Russian and Indian Languages and Literature.

**PLACEMENTS:** Placement possibility in Defence, Power, Petroleum, Trade, Hospitable sectors and ministries of Internal and External affairs, Govt. of India.

**ALUMNI RELATIONS:** Most of the pass outs from the department are working as Translators/ Interpreters/ Non commissioned / Commissioned officers in Indian Army, Air-Force & Navy, Tourist guides, Executives in export – import houses.

## DEPARTMENT OF SANSKRIT

### ABOUT THE DEPARTMENT

The Department was established in 1956. There are two courses in the department i.e. M.Phil and Post-graduate Courses in Sanskrit. Besides this, the faculty of department is also supervising the research work of the students enrolled for PhD in the field of Literature, Philosophy, Grammar, Veda & Dharma Shastra. The Department organizes special lectures and workshops on important aspects (Indian Philosophy, Classic Literature and Vedic Literature and Dharmashastras of Sanskrit learning).

### FACULTY

Designation	Name	Field of Research Specialization
Professors	Shankarji Jha (Chairperson) V.K.Alankar	Darshan, Literature and Grammar Ved Grammar, Darshan and Literature

### COURSES OFFERED (SEMESTER SYSTEM)

Course	Seats	Duration	Eligibility*	Admission Criteria
M.A	68 + 7 NRI	2 Years	Passed one of the following qualifications from a recognized University/Institute: Bachelor's Degree obtaining at 45% marks in Sanskrit and 50% in aggregate provided the candidate has passed Sanskrit as an elective or literature subject. OR B.A. with (Hons) in Sanskrit or B.Sc.(Hons.) course. OR Master's Degree examination in any other subject provided the candidate has studied Sanskrit at graduation level. OR Passed 'Shastri Examination either under 3-year (10+2+3) Degree Course (New Scheme) or under the Old Scheme (10+1+3) Degree Course.	Based on Merit
M.Phil.	20	1 Year	See M.Phil./Ph.D. Prospectus 2017	
Ph.D.	Subject to availability	3-6 Years	See M.Phil./Ph.D. Prospectus 2017	

\*5% Concession is admissible in eligibility marks to SC/ST/BC/PwD Candidates.

**TITLES OF SYLLABI** (Detailed syllabi available at [www.puchd.ac.in](http://www.puchd.ac.in) & <http://:skt@pu.ac.in>)

### M.A.

Semester-I		Semester-II	
Paper-1	वैदिक साहित्य	Paper-5	वैदिक साहित्य
Paper-2	संस्कृत नाटक व काव्य शास्त्र	Paper-6	काव्य एवं काव्य शास्त्र
Paper-3	व्याकरण एवं भाषा विज्ञान	Paper-7	व्याकरण एवं भाषा विज्ञान
Paper-4	दर्शन	Paper-8	दर्शन
Semester-III		Semester-IV	
Paper-9	वैदिक साहित्य का इतिहास तथा अर्थशास्त्र	Paper-13	लौकिक संस्कृत साहित्य का इतिहास तथा स्मृति
Paper-10	संस्कृत गद्य तथा निबन्ध	Paper-14	गद्य तथा अनुवाद
Option-I:			
Paper-11	(वर्ग- i : वेद) वैदिक संहिता	Paper-15	(वर्ग- i : वेद) वैदिक संहिता
Paper-12	(वर्ग- i : वेद) ब्राह्मण, श्रौत एवं गृह्य सूत्र	Paper-16	(वर्ग- i : वेद) वैदाङ्ग
Option-II			
Paper-11	(वर्ग- ii : साहित्य) काव्यशास्त्र	Paper-5	(वर्ग- ii : साहित्य) काव्यशास्त्र
Paper-12	(वर्ग- ii : साहित्य) गद्य एवं नाटक	Paper-6	(वर्ग- ii : साहित्य) संस्कृत काव्य
Paper-7	(वर्ग- iii : संस्कृत व्याकरण) व्याकरण प्रक्रिया	Paper-7	(वर्ग- iii : संस्कृत व्याकरण) व्याकरण प्रक्रिया
Paper-8	(वर्ग- iii : संस्कृत व्याकरण) संस्कृत व्याकरण दर्शन	Paper-8	(वर्ग- iii : संस्कृत व्याकरण) वाक्यपदीय दर्शन

<b>Paper-9</b> (वर्ग – iii : भारतीय दर्शन) सांख्य दर्शन	<b>Paper-9</b> (वर्ग – iii : भारतीय दर्शन) योग दर्शन
<b>Paper-9</b> (वर्ग – iii : भारतीय दर्शन) वेदान्त तथा मीमांसा	<b>Paper-9</b> (वर्ग – iii : भारतीय दर्शन) न्यायवैशेषिक

**THRUST AREAS:** Study of Sanskrit Literature, Philosophy, Grammar, Veda in the light of Advanced Modern Technology and its comparison.

**PLACEMENTS:** We are sensitizing students for quality programme.

**ALUMNI RELATIONS:** An attempt is being made to invite prominent students of our Department to interact with students and faculty.

## DEPARTMENT OF URDU/PERSIAN

### ABOUT THE DEPARTMENT

The department is involved in teaching of Urdu and Persian teaching and Ph.D. research work in both the subjects. The Department of Urdu was established in the year 1978 and later on the Persian studies were also started in the year 1985, with the founder members. Dr. Haroon Ayub in Urdu and Dr. Madhukar Arya in Persian, respectively. The Urdu and Persian studies had been the major subject of teaching in the Oriental College of Lahore which was later established in the name of Panjab University at Lahore, and the eminent Persian & Urdu poet Allama Iqbal Lahori had been the HOD of the department that time. The study of said courses were resumed by this University after the partition of India and at the first stage, the University introduced the certificate course in Urdu and Persian and later on the Diploma and Advance Diploma Courses were also started respectively. In the Year 1991, the Department became the Post Graduate Department where the regular teaching of M.A. in Urdu started, under semester system, but in M.A. in the subject of Persian is remain Private. The Department has Ph.D./Research work in both the subjects i.e. Persian and Urdu and has awarded about 28 Ph.D. Degrees till date in both the subjects. The Department has two separate Literary and Cultural Societies in the name of Bazm-e-Adab Farsi and also Bazm-e-Adab Urdu which organize the literary and cultural programmes with the students of the Department of Urdu & Persian. The Department has its own Departmental Library with a good number of reference and text books in the subjects of Urdu and Persian. The Department also receives journals and magazines regularly from Urdu Academy Delhi Ghalib Institute, Delhi, Academies of Iranian Academic Institutions and Iran cultural House, New Delhi & Iran Too.

### FACULTY

Designation	Name	Field of Research Specialization
Associate Prof. (Re-employed)	Madhukar Arya	Classical & Modern Literature & Specialization in Sufism
Assistant Professor	Ali Abbas	Safarnama, Classical & Modern Urdu Literature
Contractual Basis	Zareen Fatima	Khaka Nigari, Classical & Modern Urdu Literature

### COURSE OFFERED (SEMESTER SYSTEM)

Course	Seats	Duration	Eligibility*	Admission Criteria
M.A.(Urdu)	35	2 Years	B.A. or equivalent with 45% marks in Urdu elective or 50 % marks aggregate, OR B.A.(Hons). in Urdu	Based on Merit
Certificate Course in Urdu	85	1Year	Hr. Sec. or Equivalent P.U./10+2	Based on Merit
Diploma Course in Urdu	30	1Year	P.U. Cert. Course in Urdu, Urdu in Matric or Adib Exam from P.U./ Equivalent Exam.	Based on Merit
Advance Diploma Course in Urdu	20	1Year	P.U. Dip. Course in Urdu, Intermediate or B.A. I with Urdu Elective/Equivalent exam.	Based on Merit
Certificate Course in Persian	30	1Year	Hr. Sec./Equivalent exam./Pre-University.	Based on Merit
Diploma Course in Persian	20	1Year	Cert. Course in Persian from P.U., or Persian Matric level/Equivalent exam	Based on Merit

Advance Diploma Course in Persian	10	1Year	P.U. Dip. Course in Persian, Intermediate or B.A. I with Persian/Additional	Based on Merit
M.A. (Persian)	Private	2 Years	As Prescribe in section 7.1 of rules for Admission.	Based on Merit
Ph.D (Urdu)	4	3- 6 Years	See Ph.D Prospectus 2017	
*5% Concession is admissible in eligibility marks to SC/ST/BC/PwD Candidates.				

**TITLE OF SYLLABI:** (Detailed course curriculum is available at [http:// puchd.ac.in/syllabus.php](http://puchd.ac.in/syllabus.php))

### M.A.(URDU)

Semester-I		Semester-II	
Paper-1	History of Urdu Language and Literature	Paper-1	Modern Poetry
Paper-2	Elements of Urdu Structure	Paper-2	Modern Prose(Urdu Drama and Theatre)
Paper-3	Early Poetry(Nazm and Ghazal)	Paper-3	Non –Fiction(Essay and Translation)
Paper-4	Early Prose(fiction, Novel, Afsana and drama)	Paper-4	Print Media and Mass Media (radio and T.V.)
Semester-III		Semester-IV	
Paper-1	Classical Poetry(Qasida,Mersia,Masnavi)	Paper-1	Comparative Study of Urdu and Punjabi Literature
Paper-2	Classical Prose	Paper-2	Lisaniyat
Paper-3	Principal of Literary Criticism	Paper-3	Essay
Paper-4	Comparative Study of Indian Literature	Paper-4	Print media and Mass Media
M.A. (PERSIAN)			
Semester-I		Semester-II	
Paper-1	History of Persian Language & Literature	Paper-1	History of Persian Language & Literature
Paper-2	Elements of Persian	Paper-2	Elements of Persian
Paper-3	Structure Modern Prose	Paper-3	Structure Modern Prose
Paper-4	Modern Poetry	Paper-4	Modern Poetry
Semester-III		Semester-IV	
Paper-1	Classical Prose	Paper-1	Classical Prose
Paper-2	Classical Poetry	Paper-2	Classical Poetry
Paper-3	Literary Criticism	Paper-3	Literary Criticism
Paper-4	Modern Poetry	Paper-4	Modern Poetry
Certificate Course In Urdu		Diploma Course In Urdu	
Paper-1	Prose & Poetry	Paper-1	Prose & Poetry
Paper-2	Grammer & Composition	Paper-2	Urdu Adab & Sahafat
Certificate Course in Persian		Diploma Course in Persian	
Paper-1	Prose & Poetry	Paper-1	Prose & Poetry
Paper-2	Grammer & Composition	Paper-2	Translation & Literary History
Advance Diploma Course In Urdu		Advance Diploma Course In Persian	
Paper-1	Poetry	Paper-1	Classical Modern Prose
Paper-2	Basic Knowledge of History of Urdu Literature	Paper-2	Classical Modern Poetry
Paper-3	Prose & Novel Composition	Paper-3	Literary History of Persian
Paper-4	Journalism	Paper-4	Political Economical & Social History of Iran

**THRUST AREAS:** The Department is engaged in the Research Programme in almost all major disciplines of Persian language and literature, and the thrust area is comparative study of Persian with Punjabi, Urdu, Sanskrit, Pali and other Modern Indian Languages and also in the subject of Medieval Indian History, Ancient Indian History, Fine Arts, Law, Political & Social Sciences with comparative studies and Mysticism and Mystical Literature, written during the Ancient Period based on Classical Literature and also written during the so-called Modern Period in all the Modern Indian Languages. The students come from Iran and other Arab countries for Ph.D. in the Department.

### **VISHVESHVARANAND VISHVA BANDHU INSTITUTE OF SANSKRIT AND INDOLOGICAL STUDIES (VVBIS & IS), HOSHIARPUR**

#### **ABOUT THE INSTITUTE**

The Institute was taken over by the University in 1965. The Panjab University maintains a Centre of Advanced Studies and Research in Sanskrit and Indology as a regular Institute of the University under the name "VISHVESHVARANAND VISHVA BANDHU INSTITUTE OF SANSKRIT AND INDOLOGICAL STUDIES" (VVBIS & IS) at HOSHIARPUR and is about three kilometres (on the Una Road) away from the main centre of the city. The Institute publishes a half yearly Research Journal entitled "Vishveshvaranand Indological Journal". Volume L-LI of has been printed & Volume LII-LIII of 2014-2015 is under process. Besides the Institute has published about 55 Research books.

#### **FACULTY**

<b>Designation</b>	<b>Name</b>	<b>Field &amp; Research of Publications</b>
Professors(Re-employed)	Raghubir Singh	Grammar
	Prem Lal Sharma	Indian Philosophy, Jyotish
	Parbhat Singh	Classical Literature & Literary criticism
	Krishna Saini	Veda
Professor	Narsingha Charan Panda (On Leave)	Indian Philosophy, Buddhism, Veda
Assistant Professors	Aditya Angiras ( <b>Chairman</b> )	Hindi Novels
	Ritu Bala	Sanskrit Poetics
	S.K Sarangi	Indian Philosophy, Kashmir Shaivism

#### **COURSES OFFERED (SEMESTER SYSTEM)**

<b>Course</b>	<b>Seats</b>	<b>Duration</b>	<b>Eligibility*</b>	<b>Admission Criteria</b>
Shastri	40	3 Years	Prak Shastri-II/10+2 (with Sanskrit) or Visharad Course in Sanskrit) (with Matric) from P.U./equivalent examinations.	Based o Merit
Prak Shastri	40	2 Years	Matric/Hr. Sec. I/or equivalent examinations.	Based on Merit
M.A.	60	2 Years	Passed one of the following examinations from a recognized University/Institute: Bachelor's Degree obtaining at 45% marks in Sanskrit and 50% in aggregate provided the candidate has passed Sanskrit as an elective or literature subject. OR B.A. with (Hons) in Sanskrit or B.Sc.(Hons.) course. OR Master's Degree examination in any other subject provided the candidate has studied Sanskrit at graduation level. OR Passed 'Shastri Examination either under 3-year (10+2+3) Degree Course(New Scheme) or under the Old Scheme (10+1+3) Degree Course.	Based o Merit
M.Phil.	20	1 Year	See M.Phil./Ph.D. Prospectus 2017	
Ph.D.	20	3-6 Years	See M.Phil./Ph.D. Prospectus 2017	
*5% Concession is admissible in eligibility marks to SC/ST/BC/PwD Candidates				

**TITLES OF SYLLABI:** (Detailed syllabus available at <http://puchd.ac.in/syllabus.php?qstrfacid=6>)



**Prak Shastri**

<b>Semester-I</b>		<b>Semester-II</b>	
पत्र i)	व्याकरण	पत्र i)	व्याकरण
पत्र ii)	साहित्य	पत्र ii)	साहित्य
पत्र iii)	दर्शन एवं अनुवाद	पत्र iii)	दर्शन एवं अनुवाद
पत्र iv)	हिन्दी	पत्र iv)	हिन्दी
पत्र iv)	सामान्य अंग्रेजी या सामान्य पंजाबी या पंजाब का इतिहास एवं संस्कृति	पत्र iv)	सामान्य अंग्रेजी या सामान्य पंजाबी या पंजाब का इतिहास एवं संस्कृति
<b>Semester-III</b>		<b>Semester-IV</b>	
पत्र i)	व्याकरण	पत्र i)	व्याकरण
पत्र ii)	साहित्य	पत्र ii)	साहित्य
पत्र iii)	दर्शन एवं अनुवाद	पत्र iii)	दर्शन एवं अनुवाद
पत्र iv)	हिन्दी	पत्र iv)	हिन्दी
पत्र iv)	सामान्य अंग्रेजी या सामान्य पंजाबी या पंजाब का इतिहास एवं संस्कृति	पत्र iv)	सामान्य अंग्रेजी या सामान्य पंजाबी या पंजाब का इतिहास एवं संस्कृति
<b>Shastri</b>			
<b>Semester-I</b>		<b>Semester-II</b>	
i)	व्याकरण	i)	व्याकरण
ii)	साहित्य	ii)	साहित्य
iii)	दर्शन एवं अनुवाद	iii)	दर्शन एवं अनुवाद
iv)	वेद एवम् वेदांग	iv)	वेद एवम् वेदांग
Option - I -	नीति शास्त्र, धर्मशास्त्र और आयुर्वेद	Option - I -	नीति शास्त्र, धर्मशास्त्र और आयुर्वेद
v)	नीतिशास्त्र	v)	नीतिशास्त्र
vi)	आयुर्वेद	vi)	आयुर्वेद
Option - II -	ज्योतिष और वास्तुशास्त्र	Option - II -	ज्योतिष और वास्तुशास्त्र
v)	व्यावहारिक ज्योतिष	v)	व्यावहारिक ज्योतिष
vi)	मुहूर्तशास्त्र	vi)	मुहूर्तशास्त्र
vii-viii)	अंग्रेजी, पंजाबी, इतिहास तथा हिन्दी में से कोई दो पत्र	vii-viii)	अंग्रेजी, पंजाबी, इतिहास तथा हिन्दी में से कोई दो पत्र
<b>Semester-III</b>		<b>Semester-IV</b>	
i)	व्याकरण	i)	व्याकरण
ii)	साहित्य	ii)	साहित्य
iii)	दर्शन एवं अनुवाद	iii)	दर्शन एवं अनुवाद
iv)	वेद एवम् वेदांग	iv)	वेद एवम् वेदांग
Option - I -	नीति शास्त्र, धर्मशास्त्र और आयुर्वेद	Option - I -	नीति शास्त्र, धर्मशास्त्र और आयुर्वेद
v)	धर्मशास्त्र	v)	धर्मशास्त्र
vi)	आयुर्वेद	vi)	आयुर्वेद
Option - II -	ज्योतिष और वास्तुशास्त्र	Option - II -	ज्योतिष और वास्तुशास्त्र
v)	व्यावहारिक ज्योतिष	v)	व्यावहारिक ज्योतिष
vi)	मुहूर्तशास्त्र	vi)	मुहूर्तशास्त्र
vii-viii)	अंग्रेजी, पंजाबी, इतिहास तथा हिन्दी में से कोई दो पत्र	vii-viii)	अंग्रेजी, पंजाबी, इतिहास तथा हिन्दी में से कोई दो पत्र
<b>Semester-V</b>		<b>Semester-VI</b>	
i)	व्याकरण	i)	व्याकरण
ii)	साहित्य	ii)	साहित्य
iii)	दर्शन एवं अनुवाद	iii)	दर्शन एवं अनुवाद

iv) वेद एवम् वेदांग Option - I - नीति शास्त्र, धर्मशास्त्र और आयुर्वेद v) धर्मशास्त्र vi) आयुर्वेद Option - II - ज्योतिष और वास्तुशास्त्र v) जातक शास्त्र vi) होराशास्त्रम् vii-viii) अंग्रेजी, पंजाबी, इतिहास तथा हिन्दी में से कोई दो पत्र	iv) वेद एवम् वेदांग Option - I - नीति शास्त्र, धर्मशास्त्र और आयुर्वेद v) धर्मशास्त्र vi) आयुर्वेद Option - II - ज्योतिष और वास्तुशास्त्र v) जातक शास्त्र vi) होराशास्त्रम् vii-viii) अंग्रेजी, पंजाबी, इतिहास तथा हिन्दी में से कोई दो पत्र
<b>Semester-I</b>	<b>Semester-II</b>
i) वैदिक साहित्य ii) संस्कृत नाटक व काव्यशास्त्र iii) व्याकरण तथा भाषा विज्ञान iv) दर्शन	v) वैदिक साहित्य vi) संस्कृत नाटक व काव्यशास्त्र vii) व्याकरण तथा भाषा विज्ञान viii) दर्शन
<b>Semester-III</b>	<b>Semester-IV</b>
ix) वैदिक साहित्य का इतिहास तथा अर्थशास्त्र x) संस्कृत गद्य तथा निबन्ध Option - I - वेद xi) वैदिक संहिता xii) ब्राह्मण, श्रौत एवं गृह्यसूत्र Option - II - साहित्य xi) काव्य शास्त्र xii) गद्य और नाटक Option - III - संस्कृत व्याकरण xi) व्याकरण प्रक्रिया xii) संस्कृत व्याकरण दर्शन Option - IV - भारतीय दर्शन xi) सांख्य दर्शन xii) वेदान्त तथा मीमांसा	xiii) लौकिक संस्कृत साहित्य का इतिहास तथा स्मृति xiv) गद्य तथा अनुवाद Option - I - वेद xv) वैदिक संहिता xvi) वेदांग Option - II - साहित्य xv) काव्य शास्त्र xvi) संस्कृत काव्य Option - III - संस्कृत व्याकरण xv) व्याकरण प्रक्रिया xvi) वाक्यपदीय दर्शन Option - IV - भारतीय दर्शन xv) योग दर्शन xvi) न्याय वैशेषिक

**VISHVESHVARANAND LIBRARY** : The Library possesses about 80826 books and journals and about 2200 ancient manuscripts. It received 70 journals and periodicals during the year and recognized by UNESCO.

**THRUST AREA** :Development of Sanskrit and Indological Studies.

## VII. Faculty of Law DEPARTMENT OF LAWS

### ABOUT THE DEPARTMENT

The Department of Laws, originally established at Lahore in 1889, was re-established at Shimla in 1948, shifted to Jalandhar in 1950 and finally re-located at the University Campus at Chandigarh in 1959. Its Alumni include Judges of the Supreme Court and High Courts, Union Cabinet Ministers, State Chief Ministers, Cabinet Ministers, Ambassadors, Senior Bureaucrats, Police Officers and other legal luminaries. The Department provides practical training to LL.B. students. One full paper of 6<sup>th</sup> Semester includes compulsory participation in two Moots, attachment with advocates in District Courts for 7 to 10 days. Every year the students of the department are sent to the Supreme Court of India as a part of the practical training programme. It has established a Legal Aid Clinic-cum-Arbitration Centre as well as a Placement Cell. The Department has provision for special lectures in memory of Justice Mehr Chand Mahajan and S. Ajit Singh Sarhadi. These lectures have been delivered over the years by eminent persons such as Justice V.K. Krishna Iyer, Justice V.S. Deshpande, Professor Upendra Bakshi, Dr. L.M. Singhvi, Professor Mool Chand Sharma, Justice J.S. Verma, Mr. Soli J. Sorabjee, Prof. M.R. Madhava Menon and Prof. B.S. Chimni. It has a good library with more than 51,000 books and 52 regularly subscribed Indian and foreign journals. The Department has also the distinction of having Depository Library for United Nations Documents which is the only library with more than 8000 documents North of India. The Department regularly publishes a Law Journal (Panjab University Law

Review). The Department has its Moot and Debate Society, which give students and opportunity to explore their talent.

Dress Code: Black pant and coat, white shirt along with tie/scarf (prescribed) on all formal occasions/functions i.e. moot courts, court visits, presentations, special lectures etc. The girl students have option to wear this dress or white salwar kameez with white dupatta and black coat.

### FACULTY

Designation	Name	Field of research specialization
Professor Emeritus	Veer Singh	Labour laws, Jurisprudence
	V.K. Bansal	Constitutional Law
Professor Re-employed Professors	Bhajan Kaur	Family law
	Shalini Marwaha <b>(Chairperson)</b>	Jurisprudence, Constitutional Law, Human Rights & Law, Administrative Law, Environmental Law, Law Related To Women & Children, Law And Social Transformation, Media Law, Health Laws
	Nishtha Jaswal	Constitutional Law, Administrative Law, Service Law, Human Rights, Environmental Law
	Ranbir Kaur Bhangu	Labour Laws, Service Law
	Vijay Nagpal	Jurisprudence, Criminal Law, Law Related to Physically And Mentally Challenged Persons
	Meenu Paul	Labour Laws, Intellectual Property Law
	Devinder Singh	Human Rights, Constitutional Law, Administrative Law, Jurisprudence
	Paramjit Kaur	Laws of Evidence, Environmental Laws And Military Law
	Geeta joshi	Criminal Law (Substantive)
	Associate Professors	Vanadana Arora
Assistant Professors	Jyoti Rattan	Income Tax, International Law, Human Rights
	Babita Devi Pathania	Human Rights, Protection of Women, Domestic Violence, Corporate Law, Administrative Law And Service Law
	Anil Kumar Thakur	Constitutional Law, Jurisprudence Human Rights, Environmental Laws, Law And Globalization, Law And Economics
	Dinesh Kumar	Human Rights And Arbitration
	Shipra Gupta	Constitutional And Commercial Laws
	Supinder Kaur	Family Law And Criminal Law

### COURSES OFFERED (SEMESTER SYSTEM)

Course	Seats	Duration	Eligibility*	Admission Criteria
LL.B.	300	3 Years	Passed one of the following examinations from a recognized University/Institute: i) Bachelor's/ Master's Degree in any discipline with at least 45% marks. ii) In case of a candidate having a Bachelor's degree through Modern Indian Languages (Hindi or Urdu or Punjabi (Gurmukhi Script) and/or in a Classical Language (Sanskrit or Persian or Arabic) the aggregate of 45% marks shall be calculated by taking into account the percentage of aggregate marks that he had secured at the language examination, excluding the marks for additional optional paper, English and the elective subject taken together.	Based on PG-Law Academics: 50% PG-Law: 50%
LL.M.	42+4 NRI	1 Year	(a) LL.B. 3 years Degree/ B.A.LL.B./ B.Com.LL.B. 5 years degree examination of this University with minimum 55% marks OR (b) Any equivalent examination of another University recognized by the Syndicate for this purpose.	Based on PU-CET (PG)** Academics: 20% PU-CET(PG): 80%
Ph.D.	98	3-6 Years	See M.Phil/Ph.D. Prospectus 2017	

LL.D. See Regulations on pages 408-409 P.U. Cal. Vol. II, 2007.
*5% Concession is admissible in eligibility marks to SC/ST/BC/PwD Candidates.
**Candidates having B.A.LL.B./B.Com LL.B (Hons.) 5-years Integrated Course will be given Weightage for Hons. as per BCI Rules of Legal Education, 2008. Hons. weightage would be denoted by Z and calculated as follows: $Z = X \times 15/100$ . X = Academic Marks i.e. 20%
<b>Note-1:</b> The applicants having a compartment in their qualifying examination shall not be eligible to join LL.B. course irrespective of their clearing the entrance test.
<b>Note-2:</b> The applicants who have obtained 10+2 or Graduation/Post Graduation through open universities system directly without having any basic qualifications for prosecuting such studies be not admitted in law courses.
<b>Note-3:</b> No candidate will be admitted to the LL.B. course having any Degree inconsistent with the University Grants Commission Regulations and also Bar Council of India, Rules of Legal Education 2008.
<b>Note 4 :</b> The concession by way of additional seat for Only (Single) Girl Child and for Cancer/Aids Patient is not applicable to the students falling under regulatory agencies such as MCI, DCI, BCI and NCTE. As the LL.B. course is regulated by Bar Council of India, this concession is not applicable to the LL.B. course.
<b>Note 5 :</b> Timings for LL.B. 1st year classes (Academic Session 2017-18) shall be from 8.30 a.m. to 4.00 p.m. including half an hour tea break and one hour lunch break.

**TITLES OF SYLLABI:** (Detailed syllabi available at <http://puchd.ac.in/syllabus.php?qstrfacid=7>)

#### LL.B.

Semester- I		Semester- II	
Paper-1	Jurisprudence-I	Paper-1	Jurisprudence-II
Paper-2	Constitutional Law-I	Paper-2	Constitutional Law-II
Paper-3	Law of Contract	Paper-3	Special Contracts
Paper-4	Family Law-I	Paper-4	Family Law-II
Paper-5	Law of Torts including Motor Vehicle Accidents and Consumer Protection Laws	Paper-5	International Human Rights & Public International Law
Semester- III		Semester- IV	
Paper-1	Law of Crimes-I	Paper-1	Law of Crimes - II
Paper-2	Property Law	Paper-2	Company Law
Paper-3	Labour Law	Paper-3	Administrative Law
Paper-4 & 5	Option: Any two of the following	Paper-4	Alternate Dispute Resolution
	a) Information Technology Act & RTI Act	Paper-5	Option: Any one of the following
	b) Local Self Government including Panchayat Administration		a) Law of Taxation
	c) International Organization and Humanitarian Law		b) International Labour Organization and Labour Laws
	d) Penology and Victimology		
Semester-V		Semester-VI	
Paper-1	Law of Evidence	Paper-1	Environmental & Wild Life Protection Laws
Paper-2	Criminal Procedure Code	Paper-2	Civil Procedure Code & Limitation Act
Paper-3	Service Law	Paper-3	Professional Ethics & Professional Accountability
Paper-4	Drafting, Pleading & Conveyance	Paper-4	Moot Court Exercise and Internship
Paper-5	Option: Any one of the following	Paper-5	Option: Any one of the following
	a) Equity & Trust Law		a) Interpretation of Statute and Principle of Legislation
	b) Private International Law		b) IPR Management
Semester-I		Semester-II	
Paper-1	Research Methods and Legal Writing	Paper-5	Law and Justice in a Globalizing World
Paper-2	Comparative System of Governance	Paper-6	One optional group from Six

Paper-3	One optional group from Six	<b>Group-1</b> International and Comparative Law:
<b>Group-1</b>	International and Comparative Law:	i) International Economic Law
	i) International Human Rights and Humanitarian Law	ii) Environmental Law
	ii) International Criminal Law	iii) Air & Space Law
	iii) International Law	<b>Group-2</b> Corporate and Commercial Law:
<b>Group-2</b>	Corporate and Commercial Law:	i) Competition Law
	i) Banking and Insurance Law	ii) International Trade Law
	ii) Intellectual Property Rights	iii) Cyber Law
	iii) Commercial Arbitration	<b>Group-3</b> Criminal and Security Law:
<b>Group-3</b>	Criminal and Security Law:	i) International Criminal Law
	i) Criminology and Penology	ii) Police Law and Administration
	ii) Criminal Justice and Human Rights	iii) Corporate Crimes/ White Collar Crimes
	iii) Victimology	<b>Group-4</b> Family and Social Security Law:
<b>Group-4</b>	Family and Social Security Law:	i) Rights of Women and Their Protection
	i) Uniform Civil Code	ii) Disaster Management Law
	ii) Child Rights and Protection	iii) Forest and Agricultural Laws
	iii) Labour and Employment Laws	<b>Group-5</b> Constitutional and Administrative Law:
<b>Group-5</b>	Constitutional and Administrative Law:	i) Centre State Relations and Constitutional Governance
	i) Fundamental Rights and Directive Principles	ii) Media Law
	ii) Health Laws	iii) Global Administrative Law
	iii) Service Law	<b>Group-6</b> Legal Pedagogy and Research:
<b>Group-6</b>	Legal Pedagogy and Research:	i) Science, Technology and Law
	i) Clinical Legal Education	ii) Law, Religion and Culture
	ii) Law and Development	iii) Copyright Law and Promotion of Scholarship
	iii) Education Law	Paper-7 Dissertation
Paper-4	Term Paper (35–50 pages - font 12 Times New Roman – 1 ½ spacing)	

**THRUST AREAS:** Constitutional and Administrative Law, Environmental Law, Family Law, International Law, Corporate law, Human Rights, Jurisprudence, Cyber Law, Intellectual Property Rights.

**PLACEMENTS:** The Department has its own Placement Cell which encourages the students to undertake their internship after the class hours. The cell arranges internships to the interested students with leading lawyers, NGOs, Commissions etc. The Department has also started inviting the potential employers in the Corporate Sector for the purpose of recruitment of students in the Final year of their studies.

**ALUMNI:** The Department is likely to start Alumni Cell in the near future.

## UNIVERSITY INSTITUTE OF LEGAL STUDIES (UILS)

### ABOUT THE INSTITUTE

The University Institute of Legal Studies (UILS), a constituent department of Panjab University, has emerged as a premier legal institute of the region in almost a decade of its establishment. The institute has its own four storeyed building that includes spacious classrooms, modern Moot Court Hall, Conference Hall, Legal Aid Clinic, Computer Lab etc. It has one of the richest law library of the region with more than 15,000 text books and reference books. The library subscribes to 56 Indian and foreign journals also. The institute is committed to hone the DRAIN Drafting, Research, Advocacy, Interviewing, and Negotiation skills of its students through vibrant, interdisciplinary and content rich programmes including a spectrum of law along with the social sciences, languages and commerce subjects.

Students are trained in the essence of substantive laws, techniques of procedural laws, methods of client counseling, drafting skills along with research in law and allied fields. For accomplishment of these objectives, the Institute organizes various curricular/extra-curricular activities like Moot Court Competitions, Client Counseling Competitions, Seminars, Conferences, Group Discussions, Extension Lectures etc. from time to time. The Institute also provides a platform for the clinical legal training through its Legal Aid Clinic and compulsory internships with judges, eminent lawyers, legal firms, commissions, NGO's etc.

### FACULTY

Designation	Name	Field of Research Specialization
Professors	Sangita Bhalla <b>(Director)</b>	Criminal Law, Human Rights, Labour & Gender Issues
	Rattan Singh	Constitutional Law, Research Methodology, Administrative Law
Associate Professors	Rajinder Kaur	Corporate Law, Advertisement Law
	Sarabjit Kaur	International Politics
Assistant Professors	Gulshan Kumar	Industrial Economics
	Sasha	History of Medicine & Science
	Navneet Arora	Media Studies
	Chanchal Narang	English Language Teaching
	Pushpinder Kaur	Environmental Law, International Law, Criminal Law
	Shruti Bedi	Constitutional Law, Anti-Terror Laws
	Jasmeet Gulati	Public International Law, Intellectual Property Laws
	Meenu Saihjpal	Micro-Economics, Industrial Economics
	Sabina Salim	Environmental Laws
	Amita Verma	Contract, Cyber Laws
	Jai Mala	Family Law, Labour Law
	Jasneet Kaur Walia	Constitutional Law, Human Rights
	Karan Jawanda	Hindu Law and Civil Procedure
Anju Berwal	Criminal Law	
Bharat	Commercial Law	
Ajay Ranga	Criminal Law, Forensic Studies	
Anupam Bahri	Gender Ageing	
Deepti Laroia	English Literature	
Virender Negi	Constitutional Law	

### COURSES OFFERED (SEMESTER SYSTEM)

Course	Seats	Duration	Eligibility*	Admission Criteria
B.A.LL.B. (Hons.) Integrated Course	120	5 Years	10+2 examination with at least 50% marks from any recognized Board/ University. **	Based on PU-B.A /B.Com LL.B (Hons.) Entrance Test Academics: 50% Entrance Test: 50%
B.Com. LL.B. (Hons.) Integrated Course	120	5 Years	10+2 examination with atleast 50% marks from any recognized Board/ University. **	Based on PU-B.A/ B.Com LL.B (Hons.) Entrance Test Academics: 50% Entrance Test: 50% Plus Weightage for commerce subjects
LL.M. (Self Finance) with specializations /Law, Science and Technology or Commercial and Corporate Laws	40+4 NRI	1 Year	LL.B. 3-years Degree/B.A.LL.B. /B.Com.LL.B. 5-years Degree with minimum 55% marks of this University or equivalent examination from any recognized University.	Based on PUCET(PG) Academics: 20% PU-CET(PG): 80%



<b>Semester-I</b>		<b>Semester-II</b>	
<b>Choose any one Minor Group</b>		<b>Choose any one Minor Group</b>	
Paper-I (a)	Group-I (Minor) Political Science-I (Minor)	Paper-I (a)	Group-I (Minor) Political Science-II (Minor)
Paper-I (b)	Group-II (Minor)Economics-I (Minor)	Paper-I (b)	Group-II (Minor)Economics-II (Minor)
<b>Major (optional) (choose any one)</b>		<b>Major (optional) (choose any one)</b>	
Paper-II (a)	Political Science-I (Major)	Paper-II (a)	Political Science-II (Major)
Paper-II (b)	History-I (Major)	Paper-II (b)	History-II (Major)
Paper-II (c)	Economics-I (Major)	Paper-II (c)	Economics -II (Major)
Paper-II (d)	Sociology-I (Major)	Paper-II (d)	Sociology-II (Major)
Paper-II (e)	English-I (Major)	Paper-II (e)	English-II (Major)
Paper-III	English-I	Paper-III	English-II
Paper-IV	Socio Legal Research in Era of Information Technology	Paper-IV	Legal Methods and Systems
Paper-V	Law of Torts including Motor Vehicle Accident Act and Consumer Protection Laws	Paper-V	Jurisprudence
Paper-VI	Law of Contract-I	Paper-VI	Special Contracts-II
<b>Semester-III</b>		<b>Semester-IV</b>	
Paper-I (a)	Group-I (Minor)Political Science-III (minor)	Paper-I (a)	Group-I (Minor)History-I (Minor)
Paper-I (b)	Group-II (Minor)Economics-III (Minor)	Paper-I (b)	Group-II (Minor)Sociology-I (Minor)
<b>Major (optional) (choose any one)</b>		<b>Major (optional) (choose any one)</b>	
Paper-II (a)	Political Science-III (Major)	Paper-II (a)	Political Science-IV (Major)
Paper-II (b)	History-III (Major)	Paper-II (b)	History-IV (Major)
Paper-II (c)	Economics-III (Major)	Paper-II (c)	Economics-IV (Major)
Paper-II (d)	Sociology-III (Major)	Paper-II (d)	Sociology-IV (Major)
Paper-II (e)	English-III (Major)	Paper-II (e)	English-IV (Major)
<b>Paper-III</b>	<b>English-III</b>	<b>Language Optional (choose any one)</b>	
Paper-IV	Public International Law	Paper-III(a)	Hindi-I
Paper-V	Constitutional Law-I	Paper-III(b)	Punjabi-I
Paper-VI	Family Law-I	Paper-III(c)	French-I
		Paper-IV	Administrative Law
		Paper-V	Constitutional Law-II
		Paper-VI	Family Law-II
<b>Semester-V</b>		<b>Semester-VI</b>	
Paper-I (a)	Group-I (Minor)History-II (Minor)	Paper-I (a)	Group-I (Minor)History-III (Minor)
Paper-I (b)	Group-II (Minor)Sociology-II (Minor)	Paper-I (b)	Group-II (Minor)Sociology-III (Minor)
<b>Major (optional)</b>		<b>Major (optional)</b>	
Paper-II (a)	Political Science-V(Major)	Paper-II (a)	Political Science-VI (Major)
Paper-II (b)	History-V (Major)	Paper-II (b)	History-VI (Major)
Paper-II (c)	Economics-V (Major)	Paper-II (c)	Economics-VI (Major)
Paper-II (d)	Sociology-V (Major)	Paper-II (d)	Sociology-VI (Major)
Paper-II (e)	English-V (Major)	Paper-II (e)	English-VI (Major)
<b>Language Optional (choose any one)</b>		<b>Language Optional (choose any one)</b>	
Paper-III(a)	Hindi-II	Paper-III(a)	Hindi-III
Paper-III(b)	Punjabi-II	Paper-III(b)	Punjabi-III
Paper-III(c)	French-II	Paper-III(c)	French-III



Paper-IV Indian Penal Code-I Paper-V Criminal Procedure-I <b>Opt any one of the following subjects</b> Paper-VI(a) Local Self Government  Paper-VI(b) Interpretation of Statutes and Principles of Legislation Paper-VI(c) International Criminal Law and International Criminal Court	Paper-IV Indian Penal Code-II Paper-V Criminal Procedure-II <b>Opt any one of the following subjects</b> Paper-VI(a) Law Relating to Agriculture (common with Law and Agriculture) Paper-VI(b) Private International Law  Paper-VI(c) Land Laws and Rent Laws
<b>Semester-VII</b>	<b>Semester-VIII</b>
Paper-I Alternate Dispute Resolution Paper-II Law of Property (common with Property Law including Transfer of Property Act 1882)	Paper-I Company Law Paper-II Drafting, Pleading and Conveyance
Paper-III Law of Evidence Paper-IV Civil Procedure-I Paper-VI Business Laws-I <b>Opt any one of the following subjects</b> Paper-V (a) Gender Justice and Feminist Jurisprudence Paper-V (b) Right to Information and Media Law Paper-V (c) Organized Crimes and Internal Security Laws	Paper-III Environmental Law Paper-IV Civil Procedure including Limitation Law-II Paper-VI Business Laws-II <b>Opt any one of the following subjects</b> Paper-V (a) International Trade Law Paper-V (b) Election Law Paper-V (c) Service Laws
<b>Semester-IX</b>	<b>Semester-X</b>
Paper-I Labour and Industrial Laws  Paper-II Moots and Practical Training (common with Moots) Paper-III Forensic Science Paper-IV International Human Rights Paper-V Principles of Taxation Law <b>B.COM. LL.B (HONS.)</b>	Paper-I Labour Laws and International Labour Organization Paper-II Information Technology Law  Paper-III Company Law Paper-IV Criminology, Penology and Victimology Paper-V Intellectual Property Laws
<b>Semester-I</b>	<b>Semester-II</b>
Paper-I Business Economics-I (Minor) Paper-II Principles of Financial Accounting (Major-I) Paper Nos. III to VI are common with B.A.LL.B. (Hons.).	Paper-I Business Economics-II (Minor) Paper-II Corporate Accounting (Major-II) Paper Nos. III to VI are common with B.A.LL.B. (Hons.).
<b>Semester-III</b>	<b>Semester-IV</b>
Paper-I Indian Economy (Minor) Paper-II Cost Accounting (Major-III) Paper Nos. III to VI are common with B.A.LL.B. (Hons.).	Paper-I Business Mathematics and Statistics (Minor) Paper-II Management Concepts and Practices (Major-IV) Paper Nos. III to VI are common with B.A.LL.B. (Hons.).
<b>Semester-V</b>	<b>Semester-VI</b>
Paper-I Operations Research (Minor) Paper-II Financial Management (Major-V)  Paper Nos. III to VI are common with B.A.LL.B. (Hons.).	Paper-I Auditing and Indirect Tax (Minor) Paper-II Entrepreneurship and Small Scale Business (Major-VI)  Paper Nos. III to VI are common with B.A.LL.B. (Hons.).
<b>Papers of 7<sup>th</sup>, 8<sup>th</sup>, 9<sup>th</sup> and 10<sup>th</sup> semesters are common with B.A.LL.B. (Hons.)</b>	
<b>LL.M. (ONE YEAR)</b>	
<b>Semester-I</b>	<b>Semester-II</b>
Paper-I Law & Justice in Globalising World Paper-II Legal Education and Research Methodology Optional subjects (III, IV, V) or (VI, VII, VIII)	Paper-IX Comparative Public Law Optional subjects (X,XI,XII) or (XIII, XIV, XV) Paper-X Law relating to Cyber Space and E-commerce

Paper-III	Law Health & Technology	Paper-XI	Legal Pedagogy, Language and Education
Paper-IV	Intellectual Property Rights in 21 <sup>st</sup> Century	Paper-XII	Environmental Law and Policy
Paper-V	General Principles of Criminal Law and Forensic Studies	Paper-XIII	International Trade Law
Paper-VI	Corporate Governance and Corporate Social Responsibility	Paper-XIV	Transnational Corporation and Human Rights
Paper-VII	Banking & Insurance	Paper-XV	Labour and Employment Law
Paper-VIII	Commercial Arbitration Term Paper		Dissertation & Viva-Voce
<b>MASTER OF LAWS (TWO YEAR)</b>			
<b>Semester-I</b>		<b>Semester-II</b>	
Paper-I	Jurisprudence and Global Justice	Paper-V	Law and Social Transformation
Paper-II	International Law and Human Rights	Paper-VI	Constitutional Law and New Challenges
Paper-III	Legal Education and Research Methodology	Paper-VII	General Principles of Criminal Law and Forensic Studies
Paper-IV	Methods of Legislation and Interpretation of Statutes Term Paper	Paper-VIII	Family Law
<b>Semester-III</b>		<b>Semester-IV</b>	
<b>GROUP-I CONSTITUTIONAL AND ENVIRONMENT LAW</b>		<b>GROUP-I CONSTITUTIONAL AND ENVIRONMENT LAW</b>	
Paper-IX	Administrative Law	Paper-XVII	Comparative Public Law
Paper-X	Service Law	Paper-XVIII	Environmental Law and Policy
Paper-XI	Environmental Protection Law- I	<b>GROUP-II CRIMINAL AND CORPORATE LAW</b>	
Paper-XII	Environmental Protection Law- II	Paper-XIX	Corporate Crimes and White Collar Crimes
<b>GROUP-II CRIMINAL &amp; CORPORATE LAW</b>		Paper-XX	International Trade Law Dissertation and Viva Voce
Paper-XIII	Criminology, Penology and Victimology		
Paper-XIV	Economic and Social Offences		
Paper-XV	Corporate Governance and Corporate Social Responsibility		
Paper-XVI	Banking and Insurance Law		

**THRUST AREAS: B.A.LL.B. (Hons.)/B.Com.LL.B. (Hons.) 5 years Integrated Course:** Majors in Social Sciences/Majors in Commerce, Languages, Local Self Government, Interpretation of Statutes and Principles of Legislation, International Criminal Law and International Criminal Court, Law Relating to Agriculture (common with Law and Agriculture), Private International Law, Land Laws and Rent Laws, Gender Justice and Feminist Jurisprudence, Right to Information and Media Law, Organized Crimes and Internal Security Laws, International Trade Law, Election Law, Service Laws. One year LL.M. Course; Law, Service and Technology, Commercial & Corporate Law. Master of Laws-2-years (4-Semester) Degree Course; Constitutional and Environmental law, Criminal and Corporate Laws.

**PLACEMENTS:** University Institute of legal studies recognizes the significance of placements and internships in the future career of the students. The Career Development Cell in UILS has aligned with Law Firms, PSUs, International Organizations, NGOs, Tribunals, Commissions and MNCs for inculcating the legal acumen among the students, for this purpose the UILS Career Development Cell is regularly organizing lecture series for the development of soft skills and career guidance in different fields i.e. judiciary, corporate, litigation and other promising areas. Our vision is to familiarize our students with the vast and upcoming areas in the legal field and to enable them to choose the areas of their interest which can help them to excel in their future endeavors. The UILS Career Development Cell is also taking an initiative to tie-up with foreign universities for post graduation.

**ALUMNI RELATIONS:** The institute has its alumni in diversified fields e.g. Civil Services, Judicial Services, Teaching etc. The institute has planned to hold Annual Alumni Meet to strengthen its network.

## VIII. FACULTY OF MEDICAL SCIENCE

### DR. HARVANSH SINGH JUDGE INSTITUTE OF DENTAL SCIENCES AND HOSPITAL

#### ABOUT THE DEPARTMENT

In view of an imminent need for providing a public funded quality oral health care set up to impart dental education and open avenues for research in the field of Oral Health, a Dental Sciences Institute & Hospital was essential. Hence, under the aegis of Panjab University was established Dr. Harvansh Singh Judge Institute of Dental Sciences & Hospital in April, 2006 and is duly approved by Dental Council of India/Ministry of Health & Family Welfare, Govt. of India. The Institute aims at providing excellent oral health care facilities to the general public in addition to undergraduate and postgraduate training to students. It has the ability to generate ample research avenues in dental / medical sciences which can have a far reaching impact on not only oral but general health with special thrust on community healthcare and outreach programmes for the children and the underserved population. The Institute was rated as "Top Dental College" in the region in a survey by "The Tribune". Institute was also ranked 5th in the country with regard to National Assessment and Accreditation Council as per list released by Dental Council of India.

This Institute encompasses a total of 18 departments (9 dental and 9 medical) with 8 clinical and 11 pre-clinical and para-clinical laboratories. Within a short span the Institute has been attending to 300-350 patients everyday in the various specialty clinics. A fully equipped diagnostic lab is functional at the Institute which is carrying out bio-chemical, histo-pathological and micro-biological tests at the Institute itself. The academic courses being offered in this Institute are Bachelor of Dental Surgery and Masters in Dental Surgery. BDS is four year course followed by one year compulsory paid rotatory internship with intake of 100 students. MDS is a three years course presently admitting 14 students in five specialities. Our faculty members have been keenly involved in conducting research in various clinical and basic sciences. The major focus areas of this Institution is to provide good and affordable dental treatment in various specialties to the general public, carry out clinical research including surveys, diagnostics & randomized controlled clinical trials, conduct outreach programs to enhance oral health awareness to the underserved population for the benefit of the masses and to provide clinical and didactic training as part of undergraduate teaching curriculum.

Institute has a well-equipped library. The general ailments in patients from adjoining areas are also being attended to by faculty in the medical and surgical OPD. Dental Institute also conducts camps in various schools of Chandigarh and adjoining rural areas.

The Institute strives to provide selfless service to mankind to alleviate the oral sufferings of the masses, contribute to the society by generating dental workforce for the future, working on key research areas with focus on futuristic treatment modalities.

#### FACULTY

Designation	Name	Field of Research Specialization	
Principal-cum-Professor Professors	Ashish Jain	Periodontics	
	Hemant Batra	Oral & Maxillofacial Surgery	
	Shefali Singla	Prosthodontics	
	Deepak Kumar Gupta	Orthodontics	
	Jagat Bhushan	Conservative Dentistry & Endodontics	
	Shally Gupta	Oral Pathology	
	Associate Professors	Urvashi Sharma	Pedodontics
		Komal Sehgal	Prosthodontics
		Arun Kumar Garg	Orthodontics
		Kitty Sidhu	Conservative Dentistry & Endodontics
Rajesh Kumar Joshi		Conservative Dentistry & Endodontics	
Anubha Gulati		Oral Pathology	
Sukant Garg		General Pathology	
Manjula Mehta		Microbiology	
Komal Marwaha		Physiology	
Abha Sheth		General Anatomy	
Divya Mahajan	General Anatomy		
Prabhjot Cheema	General Anatomy		
Vinay Kapur	General Medicine		

Assistant Professors	Savita Prasher	Biochemistry
	Ikreet Singh Bal	Community Dentistry
	Maninder Pal Singh	General Surgery
	Lalit Kumar	Prosthodontics
	Satya Narain	Oral & Maxillofacial Surgery
	Vandana Chhabra	Oral & Maxillofacial Surgery
	Shipra Gupta	Periodontics
	Vishakha Grover	Periodontics
	Neeraj Sharma	Oral Medicine & Radiology
	Ramandeep Saluja	Oral Pathology
	M.K. Chhabra	Pharmacology
	A.P.S. Sandhu	Oral & Maxillofacial Surgery
	Nandini Bhaskar	Periodontics
	Shaweta Sood	Periodontics
	Jyoti Gupta	Periodontics
	Sidhi Passi	Pedodontics
	Leena Verma	Pedodontics
	Archana Agnihotri	Pedodontics
	Namrata C. Gill	Pedodontics
	Sharique Rehan	Prosthodontics
	Virender Kumar	Prosthodontics
	Devinder Preet Singh	Orthodontics
	Litesh Singla	Orthodontics
	Swaty Jhamb	Conservative Dentistry & Endodontics
	Amandeep S. Uppal	Conservative Dentistry & Endodontics
	Rakhi Aulakh	General Pathology
	Jyoti Sharma	Microbiology
	Sonia Bhardwaj	Microbiology
	Sujata Upadhyay	Physiology
	Sukhwinder Singh	General Medicine
	Mili Gupta	Biochemistry
	Kavita Sekhri	Pharmacology
	Suruchi Aditya	Pharmacology
	Ruchika	Pharmacology
	Harsimran Kaur Boparai	General Anesthesia
	Gurprakash Singh Chahal	Periodontics
	Rose Kanwaljeet Kaur	Periodontics
	Rosy Arora	Pedodontics
	Puneet	Prosthodontics
	Sunint Singh	Prosthodontics
	Vivek Kapoor	Conservative Dentistry & Endodontics
	Ruchi Vashisht	Conservative Dentistry & Endodontics
	Ruchi Singla	Conservative Dentistry & Endodontics
	Prabhleen Brar	Conservative Dentistry & Endodontics
	Neha Bansal	Oral Medicine & Radiology
Rajdeep Brar	Oral Medicine & Radiology	
Simranjit Singh	Oral Pathology	
Poonam Sood	Community Dentistry	
Rajeev Rattan		
Amandeep Kaur		
Amrita Rawla		
Prabhjot Kaur		

Monika Nagpal  
 Rajni Jain  
 Manjot Kaur  
 Vandana Gupta  
 Harveen Kaur  
 Pradip Singh  
 Preeti Kang  
 Harkirat Sethi  
 Anupam Vijayvergia  
 Ravi Kant Sharma

Dental Surgeon  
 Demonstrators

Biochemistry

#### COURSE OFFERED:

Course	Seats	Duration	Eligibility	Admission Criteria
B.D.S.	85+15 NRI**	5 Years	Passed + 2 (Medical Stream)	Based on NEET
M.D.S.	Conservative & Endodontics: 3 Oral & Maxillofacial Surgery: 2 Orthodontics & Dentofacial Orthopaedics: 3 Prosthodontics & Crown & Bridge: 3 Periodontology: 3 Oral Pathology & Microbiology: 3	3 Years	Passed B.D.S. (Medical)	Based on NEET (MDS)

\* 10% Concession admissible in eligibility marks to SC/ST/BC, 5% for PwD Candidates  
 \*\* NEET required for admission in NRI category.

**TITLE OF SYLLABI:** (Detailed syllabi available at [http://www.dciindia.org.in/Rule\\_Regulation/MDS\\_Course\\_Regulations\\_2007\\_along\\_with\\_Amendments.pdf](http://www.dciindia.org.in/Rule_Regulation/MDS_Course_Regulations_2007_along_with_Amendments.pdf))

#### B.D.S.

1 <sup>st</sup> year		2 <sup>nd</sup> year	
Anatomy, Dental Material, Human Physiology, Biochemistry, Dental Anatomy and Oral Histology		General Pharmacology, General Microbiology, Pre-Clinical Prosthodontics, Pre-Clinical Conservative Dentistry	
3 <sup>rd</sup> year		4 <sup>th</sup> year	
General Medicine, General Surgery, Oral Pathology		Oral Medicine and Radiology, Oral Surgery, Prosthodontics, Periodontics, Conservative Dentistry, Pedodontics, Orthodontics, Public Health Dentistry	
M.D.S.		M.D.S.	
Conservative and Endodontics		Prosthodontics and Crown & Bridge	
Paper-1	Applied anatomy, Physiology, Pathology and Dental materials	Paper-1	Applied anatomy, Physiology, Pathology and Dental materials
Paper-2	Conservative Dentistry & Aesthetic Dentistry	Paper-2	Removable Prosthodontics and Oral Implantology
Paper-3	Endodontics	Paper-3	Fixed mProsthodontics
Paper-4	Essay	Paper-4	Essay
Oral & Maxillofacial Surgery		Periodontology	
Paper-1	Applied anatomy, Physiology and Pathology	Paper-1	Applied anatomy, Physiology, Biochemistry, Pathology and Pharmacology
Paper-2	Minor Oral Surgery and Trauma	Paper-2	Etiopathogenesis
Paper-3	Maxillofacial Surgery and Oral Implantology	Paper-3	Clinical Periodontology and Oral Implantology
Paper-4	Essay	Paper-4	Essay

<b>Orthodontics &amp; Dentofacial Orthopaedics</b>		<b>Oral Pathology &amp; Microbiology</b>	
Paper-1	Applied anatomy, Physiology, Pathology, Genetics, Physical Anthropology and Dental materials	Paper-1	Applied anatomy, Physiology, Pathology and Research Methodology
Paper-2	Diagnosis and Treatment Planning	Paper-2	Oral Pathology, Microbiology and Oncology
Paper-3	Clinical Orthodontics and Mechanotherapy	Paper-3	Laboratory Techniques and Diagnosis
Paper-4	Essay	Paper-4	Essay

**THRUST AREAS:** Patient care, Outreach activities, Innovation in Research.

## IX. FACULTY OF PHARMACEUTICAL SCIENCES

### UNIVERSITY INSTITUTE OF PHARMACEUTICAL SCIENCES

#### ABOUT THE INSTITUTE

The University Institute of Pharmaceutical Sciences (UIPS) was established in Lahore in 1944 and got re-located on the campus of Panjab University, Chandigarh in 1959. The Institute is one of the most prestigious academic organizations committed and catering to excellence in all the domains of pharmaceutical sciences. More than 3000 research papers, 186 Ph.Ds, 52 books, 81 patents (granted & filed), numerous national and international awards, and meritorious recognitions to the faculty are some of the notable accomplishments of the Institute. A few of the remarkable discoveries of new medicines have seen the reality of industrial commercialization after their successful technology transfers. Three of the faculty members have been elected as National Presidents of the prestigious Indian Pharmaceutical Congress too. The alumni occupy the highest echelons in industry, research organizations and academia in India and abroad.

In recognition to its contributions in research and teaching, the University Grants Commission (UGC) has accorded the highest level of status to the Institute as Centre of Advanced Study (CAS-II) in Pharmaceutical Sciences the first University Institution in the country to be granted with this status. Since 2009, the UIPS has been the sole institute of the country to serve as UGC Networking Resource Centre (NRC) to impart training to the pharmacy professionals in frontier and thrust domains of pharmaceutical sciences. The Institute has also received FIST grants from DST in 2006 and 2012. Recently in 2016, as per the NIRF ranking announced by MHRD for the higher education institutions, UIPS was ranked number 2 amongst the vast list of 1100 pharmacy institutions, overall.

#### FACULTY

<b>Designation</b>	<b>Name</b>	<b>Field of Research Specialization</b>
Professors Emeritus	Harkishan Singh	Pharmaceutical Chemistry
Professors	S.K. Kulkarni	Pharmacology
	Renu Chadha	Pharmaceutical Chemistry
	Karan Vasisht	Pharmacognosy
	O.P. Katare	Pharmaceutics
	V.R. Sinha	Pharmaceutics
	Bhupinder Singh Bhoop	Pharmaceutics
	Kanwaljit Chopra ( <b>Chairperson</b> )	Pharmacology
	Anupam Sharma	Pharmacognosy
	Indu Pal Kaur	Pharmaceutics
	Manoj Kumar	Pharmaceutical Chemistry
	Anil Kumar	Pharmacology
	Ranju Bansal	Pharmaceutical Chemistry
Poonam Piplani	Pharmaceutical Chemistry	
Maninder Karan	Pharmacognosy	
Associate Professor	Alka Bali	Pharmaceutical Chemistry
Assistant Professors	Anurag	Pharmacology
	Neelima Dhingra	Pharmaceutical Chemistry
	Jai Malik	Pharmacognosy
	Ashwani Kumar	Pharmacognosy
	Vandita Kakkar	Pharmaceutics
	Amita Sarwal	Pharmaceutics
	Sangeeta Pilkhwal Sah	Pharmacology
	Gurpal Singh (UGC FRP)	Pharmaceutics

**COURSES OFFERED (SEMESTER SYSTEM)**

Courses	Seats#	Duration	Eligibility*	Admission Criteria
B. Pharm.	46+6NRI	4 Years	50% Marks in 10+2 with English, Physics, Chemistry and one of the following subjects: Biology /Biotechnology/ Mathematics	Based on P.U. CET (U.G.) Academics : 25% PU-CET(UG): 75%
M. Pharm (Regular Courses)# M. Pharm. in Pharmaceutical Chemistry M. Pharm. in Pharmaceutics M. Pharm. in Pharmacognosy M. Pharm. in Pharmacology	Category A: 08 Category B: 02 NRI: 02 Category A: 08 Category B: 02 NRI: 02 Category A: 04 Category B: 01 NRI: 01 Category A: 04 Category B: 01 NRI: 01	2 Years	B. Pharm. from AICTE/PCI approved Institutions/ Universities with valid GPAT score*. For NRI Category, B. Pharm with valid GPAT/ GRE (General).	Based on Merit Academic: 30% GPAT: 70%
<b>Self-Finance Courses:</b>				
M. Pharm. in Pharmaceutical Analysis	10+2NRI	2 Years	-do-	Based on Merit** Academic: 30% GPAT: 70%
M. Pharm. In Pharmaceutical Quality Assurance	10+2NRI	2 Years	-do-	Based on Merit** Academic: 30% GPAT: 70%
Ph.D.	Subject to availability	3-6 Years	See M.Phil/Ph.D .Prospectus 2017	
* 5% Concession is admissible in eligibility marks to SC/ST/BC/PwD Candidates ** Admission to all M. Pharm. Courses is made on the basis of combined merit calculated from aggregate marks obtained in B. Pharm. 4-years Course (30% weightage) and GPAT score (70% weightage). The Non-GPAT candidates will be considered only for admission in the Self-Finance courses, provided the seat(s) remain vacant after admitting all GPAT-qualified candidates, and their overall percentage of B. Pharm. marks is not less than 60%. <b>#Category A:</b> Panjab University candidates, <b>Category B:</b> Candidates from institutes other than Panjab Univ. <b>Note:</b> 1. Any seat(s) remaining unfilled under Category A will be transferred to Category B, and vice-versa. 2. There is a provision of grant of scholarship to GPAT-qualified candidates on merit basis under Direct Benefit Transfer (DBT) Scheme of AICTE/UGC as per their guidelines.				

**TITLES OF SYLLABI :** (Detailed syllabi available at <http://puchd.ac.in/syllabus.php>)

**B. Pharm.**

Semester-I		Semester-II	
BP101T	Human Anatomy and Physiology I – Theory	BP201T	Human Anatomy and Physiology II – Theory
BP102T	Pharmaceutical Analysis I –Theory	BP202T	Pharmaceutical Organic Chemistry I – Theory
BP103T	Pharmaceutics I – Theory	BP203T	Biochemistry – Theory
BP104T	Pharmaceutical Inorganic Chemistry – Theory	BP204T	Pathophysiology – Theory
BP105T	Communication skills – Theory *	BP205T	Computer Applications in Pharmacy – Theory*
BP106	RBT Remedial Biology/	BP206T	Environmental sciences – Theory *
BP106	RMT Remedial Mathematics – Theory*	BP207P	Human Anatomy and Physiology II –Practical

BP107P Human Anatomy and Physiology – Practical	BP208P Pharmaceutical Organic Chemistry I– Practical
BP108P Pharmaceutical Analysis I – Practical	BP209P Biochemistry – Practical
BP109P Pharmaceutics I – Practical	BP210P Computer Applications in Pharmacy – Practical*
BP110P Pharmaceutical Inorganic Chemistry – Practical	
BP111P Communication skills – Practical*	
BP112 RBP Remedial Biology – Practical*	
<b>Semester-III</b>	<b>Semester-IV</b>
PHARM-3011 Chemistry of Natural Products and including Heterocyclic compounds	PHARM-4011 Physical Chemistry
PHARM-301 Medicinal Chemistry-I	PHARM-4021 Pharmaceutical Technology-II
PHARM-3021 Physical Pharmaceutics-II	PHARM-4022 Principles of Pharmaceutical Operations
PHARM-302 Pharmaceutical Microbiology	PHARM-4031 Pharmacognosy-III
PHARM-3031 Pharmacognosy-II	PHARM-4041 Pharmacology-I
PHARM-3041 Anatomy, Physiology and Health Education-II (APHE-II)	PHARM-4081 Environmental Studies
PHARM-3111 Chemistry of Natural Products and Heterocycles Practical	PHARM-4111 Physical Chemistry Practical
PHARM-3112 Medicinal Chemistry Practical-I	PHARM-4121 Pharmaceutical Technology Practical-II
PHARM-3121 Physical Pharmaceutics Practical-I	PHARM-4122 Pharmaceutical Operations Practical
PHARM-3122 Pharmaceutical Microbiology Practical	PHARM-4131 Pharmacognosy Practical-III
PHARM-3131 Pharmacognosy Practical-II	PHARM-4141 Pharmacology Practical-I
PHARM-3141 Anatomy, Physiology and Health Education Practical-II (APHE-II)	
<b>Semester-V</b>	<b>Semester-VI</b>
PHARM-5011 Medicinal Chemistry-II	PHARM-6011 Pharmaceutical Analysis-II
PHARM-5012 Biochemistry	PHARM-6012 Medicinal Chemistry-III
PHARM-5021 Pharmaceutical Technology-III	PHARM-6021 Cosmetology
PHARM-5022 Biological Pharmacy and Biotechnology	PHARM-6022 Pharmaceutical Jurisprudence
PHARM-5041 Pharmacology-II	PHARM-6031 Pharmacognosy-IV
PHARM-5112 Biochemistry Practical	PHARM-6041 Pharmacology-III
PHARM-5121 Pharmaceutical Technology Practical-III	PHARM-6111 Pharmaceutical Analysis Practical-II
PHARM-5122 Biological Pharmacy and Biotechnology Practical	PHARM-6112 Medicinal Chemistry Practical-III
PHARM-5141 Pharmacology Practical-II	PHARM-6121 Cosmetology Practica
	PHARM-6131 Pharmacognosy Practical-IV
	PHARM-6141 Pharmacology Practical-III
<b>Semester-VII</b>	<b>Semester-VIII</b>
PHARM-7011 Pharmaceutical Analysis-III	PHARM-8011 Medicinal Chemistry-IV
PHARM-7021 Pharmaceutical Technology-IV	PHARM-8021 Pharmaceutical Technology-V
PHARM-7022 Pharmacokinetics and Biopharmaceutics-I	PHARM-8022 Pharmacokinetics and Biopharmaceutics-II
PHARM-7031 Pharmacognosy-V	PHARM-8023 Clinical Pharmacy
PHARM-7041 Pharmacology-IV	PHARM-8031 Pharmacognosy-VI
PHARM-7111 Pharmaceutical Analysis Practical-III	PHARM-8111 Medicinal Chemistry Practical-IV
PHARM-7121 Pharmaceutical Technology Practical-IV	PHARM-8121 Pharmacokinetics, Biopharmaceutics and Clinical Pharmacy Practical
PHARM-7131 Pharmacognosy Practical-V	PHARM-8131 Pharmacognosy Practical-VI
PHARM-7141 Pharmacology Practical-IV	
* Non University Examination (NUE)	



**M. Pharm. and M. Pharm. (Pharmaceutics)**

<b>Semester-I</b>		<b>Semester-II</b>	
MPH101T	Modern Pharmaceutical Analytical Techniques	MPH202T	Advanced Biopharmaceutics & Pharmacokinetics
MPH102T	Drug Delivery System	MPH203T	Computer Aided Drug Delivery System
MPH103T	Modern Pharmaceutics	MPH201T	Molecular Pharmaceutics (Nano Tech and Targeted DDS)
MPH104T	Regulatory Affair	MPH204T	Cosmetic and Cosmeceuticals
MPH105P	Pharmaceutics Practical I	MPH205P	Pharmaceutics Practical II
-	Seminar/Assignment	-	Seminar/Assignment
<b>M. Pharm. (Pharmaceutical Chemistry)</b>			
<b>Semester-I</b>		<b>Semester-II</b>	
MPC101T	Modern Pharmaceutical Analytical Techniques	MPC201T	Advanced Spectral Analysis
MPC102T	Advanced Organic Chemistry -I	MPC202T	Advanced Organic Chemistry -II
MPC103T	Advanced Medicinal chemistry	MPC203T	Computer Aided Drug Design
MPC104T	Chemistry of Natural Products	MPC204T	Pharmaceutical Process Chemistry
MPC105P	Pharmaceutical Chemistry Practical I	MPC205P	Pharmaceutical Chemistry Practical II
-	Seminar/Assignment	-	Seminar/Assignment
<b>M. Pharm. (Pharmacology)</b>			
<b>Semester-I</b>		<b>Semester-II</b>	
MPL 101T	Modern Pharmaceutical Analytical Techniques	MPL 201T	Advanced Pharmacology II
MPL 102T	Advanced Pharmacology	MPL 102T	Pharmacological and Toxicological Screening Methods-II
MPL 103T	Pharmacological and Toxicological Screening Methods-I	MPL 203T	Principles of Drug Discovery
MPL 104T	Cellular and Molecular Pharmacology	MPL 204T	Experimental Pharmacology practical- II
MPL 105P	Pharmacology Practical I	MPL 205P	Pharmacology Practical II
-	Seminar/Assignment	-	Seminar/Assignment
<b>M. Pharm. (Pharmacognosy)</b>			
<b>Semester-I</b>		<b>Semester-II</b>	
MPG101T	Modern Pharmaceutical Analytical Techniques	MPG201T	Medicinal Plant biotechnology
MPG102T	Advanced Pharmacognosy	MPG102T	Advanced Pharmacognosy-II
MPG103T	Phytochemistry	MPG203T	Indian system of medicine
MPG104T	Industrial Pharmacognostical Technology	MPG204T	Herbal cosmetics
MPG105P	Pharmacognosy Practical I	MPG205P	Pharmacognosy Practical II
-	Seminar/Assignment	-	Seminar/Assignment
<b>M. Pharm. (Pharmaceutical Analysis)</b>			
<b>Semester-I</b>		<b>Semester-II</b>	
MPA101T	Modern Pharmaceutical Analytical Techniques	MPA201T	Advanced Instrumental Analysis
MPA102T	Advanced Pharmaceutical Analysis	MPA202T	Modern Bio-Analytical Techniques
MPA103T	Pharmaceutical Validation	MPA203T	Quality Control and Quality Assurance
MPA104T	Food Analysis	MPA204T	Herbal and Cosmetic Analysis
MPA105P	Pharmaceutical Analysis Practical I	MPA205P	Pharmaceutical Analysis Practical II
-	Seminar/Assignment	-	Seminar/Assignment

**M. Pharm. (Pharmaceutical Quality Assurance)**

Semester-I		Semester-II	
MQA101T	Modern Pharmaceutical Analytical Techniques	MQA201T	Hazards and Safety Management
MQA102T	Quality Management System	MQA202T	Pharmaceutical Validation
MQA103T	Quality Control and Quality Assurance	MQA203T	Audits and Regulatory Compliance
MQA104T	Product Development and Technology Transfer	MQA204T	Pharmaceutical Manufacturing Technology
MQA105P	Pharmaceutical Quality Assurance Practical I	MQA205P	Pharmaceutical Quality Assurance Practical II
-	Seminar/Assignment	-	Seminar/Assignment

**THRUST AREAS:** Facilities are available for advanced research in Pharmaceutics, Pharmaceutical Chemistry, Pharmacognosy and Pharmacology.

Some of the thrust areas include, search for new chemical entities (synthetic/semi-synthetic/natural), QbD-based development of novel and nanostructured drug delivery systems, advanced pharmacokinetic modeling, crystal engineering of active biomolecules, advanced pharmacological studies related to drug discovery and development, herbal drug standardization and development of novel herbal formulations.

**PLACEMENT:** The quality and productivity of the trained and skilled human resources by the UIPS has been ranked as par excellence in the country. A placement cell has been created under the banner of Panjab University Pharmaceutical Society (PUPS) to provide better job opportunities to our trained students. Recruitment of the students by various industries and academic institutes is carried out through campus interviews. The Institute's students have been placed in various industries located in different parts of the country. The most common recruiters are Ranbaxy, Procter & Gamble, Dr. Reddy's, IPCA, Novarties, Mylan, Abbott, Zydus-Cadila, Sun Pharma, Panacea Biotec, Dabur, Nicholas-Piramal, Ind-Swift, Heron, Quantum Solutions, Jubilant Pharma, E-valueserve, and the likes.

**ALUMNI RELATIONS:** More than 1300 graduates, over 1000 postgraduates and 190 Ph.Ds are the proud alumni of the Institute. Several of these alumni adorn prestigious professional positions in industry, research and academic institutes across the globe including US, Canada and Europe. The UIPS holds an alumni meet every year and acts as an interface for a viable alumni network.

## X. FACULTY OF SCIENCE DEPARTMENT OF ANTHROPOLOGY

**ABOUT THE DEPARTMENT**

The Department was established in 1960. During the last more than five decades, the department has not only grown in terms of personnel, equipment and laboratories, and library, it has contributed significantly to the furtherance of anthropological teaching and research in the country. Infrastructure and Laboratories facilities for teaching and research are available in Anthropology, Osteology, Serology and Bio-chemical Anthropology, Palaeoanthropology and Prehistoric Archaeology, Socio-Cultural Anthropology, Dermatoglyphics, Forensic Anthropology, Computer, Molecular Anthropology, Anatomy and Instrumentation Laboratory. The unique 'Museum of Man' in the Department has a Gallery of Fossil Apes, Primates and Man which includes life-size models, and an Ethnographic Gallery which includes items of material culture. Fieldwork is organized by the Department where students are given instructions in the field and research methods and based on empirical work they write progress reports. The Department was recognized as one of the centers under U.G.C. Programme of Special Assistance and Departmental Research Support in 1988, this programme has been extended up to 2009. The department has also been selected for support under UGC assistance for strengthening of the infrastructure of the Humanities & Social Science (ASIHSS) Programme in Anthropology for a period of five years i.e. 1.4.2005 – 31.3.2010. From 2010-2011, the department has been granted FIST- DST and is also a UGC Centre for Advanced Studies (CAS) in Anthropology (2011-2016). Mr. Robin Oberg, an Ethnographer and Applied Anthropologist is visiting the Department between the 8th of February to about 22nd of February, 2017 for interaction with the faculty and the students over a period of two weeks.

**FACULTY**

Designation	Name	Field of research specialization
Professors(Re-employed)	R.K. Pathak	Physical Anthropology
	Indu Talwar	Physical Anthropology
	Rajan Gaur	Physical Anthropology

Professors	A.K.Sinha	Social Anthropology
	Abhik Ghosh	Social Anthropology
Associate Professor	Kewal Krishan( <b>Chairperson</b> )	Physical Anthropology
Assistant Professors	Maninder Kaur	Physical Anthropology
	Ramesh Sahani	Physical Anthropology
	Jagmahender Singh	Physical Anthropology
Assistant Professor –cum-Curator	Gayathiri Pathmanathan	Physical Anthropology

**COURSES OFFERED (SEMESTER SYSTEM)**

Course	Seats	Duration	Eligibility*	Admission Criteria
B.Sc. (Hons.)	30+4 (NRI)	3 Years	Passed 10+2 Class with 50 % marks with English, Physics, Chemistry, Mathematics/ Biology from recognised Board/CBSC	Based on PU-CET(UG) Academics: 25% PU-CET(UG)75%
M.Sc. (Hons.)	23+3 (NRI)	2 Years	B.Sc. (Hons.) Anthropology OR B.A./B.Sc. with 50% from P.U. or any other recognized University	Based on Merit
Diploma in Forensic Science & Criminology	20+2**	1 Years	(a) Bachelor's Degree of P.U. subject to having +2 with Science or any equivalent exam. OR(b) An equivalent examination of any other University recognized by Syndicate as equivalent to (a) above with 50% Marks	Based on Merit
Ph. D.	20	3-6 Years	See M.Phil/Ph.D Prospectus 2017	

\*5% Concession is admissible in eligibility marks to SC/ST/BC/PwD Candidates

\*\*For Govt. Sponsored in-service Police Personnel

**TITLES OF SYLLABI :** (Detailed syllabus available at <http://puchd.ac.in/syllabus.php> )**B.Sc. (Hons.)**

Semester-I	Semester-II
AHS- 111 Introduction to Physical Anthropology	AHS-121 Evolutionary Theory & Primatology
AHS- 112 Introduction to Social-Cultural Anthropology	AHS-122 Theories in Social-Cultural Anthropology
AHS -113 Practical in Physical Human Osteology	AHS-123 Practical in Comparative Primatology
AHS-114 Practical in Human Somatoscopy and Applications	AHS-124 Practical in Anthropology
Semester-III	Semester-IV
AHS-231 Palaeoanthropology	AHS-241 Prehistoric Archaeology
AHS-232 Kinship, Family & Marriage	AHS-242 Social Anthropology
AHS-233 Fundamental of Demography	AHS-243 Anthropological Demography
AHS-234 Practical Palaeoanthropology	AHS-244 Practical Prehistoric Archaeology
AHS-235 Practical Demography	AHS-245 Practical Bio-Social Anthropology
Semester-V	Semester-VI
AHS-351 Human Auxology (Theory & Practical)	AHS-361 Human Body and Composition and Physique (Theory & Practical)
AHS-352 Fundamentals of Human Genetics (Theory & Pract.)	AHS-362 Human Genetic Variations (Theory & Prac.)
AHS-353 Anthropology of Tribe (Theory)	AHS-363 Caste and Class in India (Theory)
AHS-354 Fundamentals of Human Ecology (Theory)	AHS-364 Human Adaptability (Theory)
AHS-355 Fundamental of Anatomy (Theory)	AHS-365 Fundamentals of Human Physiology (Theory)

NOTE: In this year, the CBCS will include a choice based credit systems in B.Sc. 1<sup>st</sup> and II<sup>nd</sup> year as follows:

Core Sub Semester-I	Semester-II
ANTH-C1 Introduction to Biological Anthropology	ANTH-C3 Archaeological Anthropology
ANTH-C2 Introduction to Socio-cultural Anthropology	ANTH-C4 Fundamentals of Human Origins & Evolution

<b>Semester-III</b>		<b>Semester-IV</b>	
ANTH-C5	Tribes and Peasants in India	ANTH-C8	Theories of Culture and Society
ANTH-C6	Human Ecology: Biological & Cultural Dimensions	ANTH-C9	Human Growth and Development
ANTH-C7	Biological Diversity in Human Populations General Elective	ANTH-C10	Research Methods General Elective
ANTH-GE-I	Introduction to Anthropology (Theory & Practical)	ANTH-GE-2	Biological Anthropology (Theory & Practical)
ANTH-GE-3	Introduction to Social-Cultural Anthropology (Theory & Practical)	ANTH-GE-4	Archaeological Anthropology (Theory & Practical)
ANTH-GE-5	Fundamental of Palaeoanthropology (Theory & Practical)	ANTH-GE-6	Human Growth & Human Genetics (Theory & Practical)
<b>M.Sc. (Hons.)</b>			
<b>Semester-I</b>		<b>Semester-II</b>	
AHS-411	Physical Anthropology and Race Biology	AHS-421	Primatology
AHS-412	Prehistoric Archaeology	AHS-422	Paleolithic Cultures
AHS-413	Social Anthropology	AHS-423	Social Structure and Cultural Change
AHS-414	Practical in Physical Anthropology-I	AHS-424	Practical in Physical Anthropology II
AHS-415	Practical Studies in Human Evolution-I	AHS-425	Practical work in Human Evolution II
AHS-416	Palaeoanthropology	AHS-426	Palaeoprimateology
AHS-417	Transmission & Molecular Genetics	AHS-427	Cytogenetics and classical Genetic methods
AHS-418	Research Methods and Descriptive Statistics	AHS-428	Inferential Statistical Methods
<b>Semester- III Compulsory Papers</b>		<b>Semester-IV Compulsory Papers</b>	
AHS-531	Human Growth & Somatotyping	AHS-541	Human Body Composition and Kinanthropology
AHS-532	Human Ecology	AHS-542	Energy Flow and Human Ecological Responsiveness
AHS-533	Human Demography	AHS-543	Human Epidemiology and Public Health
AHS-534	Anthropological Theories	AHS-544	Contemporary and Indian Anthropology
AHS-535	Project Report I: Project Formulation & Data Collection	AHS-545	Project Report 2: Data analysis and report writing
PROGRAMME OPTIONS (Choose any of the options A or B)		PROGRAMME OPTIONS (Choose any of the options A or B)	
<b>OPTION-A: Biological Anthropology (Opt any three)</b>		<b>OPTION-A : Biological Anthropology (Opt any three)</b>	
AHS-536	Early Human Evolution (Theory & Practical)	AHS-546	Dimensions and implications of Human Evolution (Theory & Practical)
AHS-537	Forensic Anthropology (Theory & Practical)	AHS-547	Forensic Biology (Theory & Practical)
AHS-538	Human Red Cell Polymorphism (Theory & Pract.)	AHS-548	Enzyme, Serum proteins & other Genetic Variation (Theory & Practical)
AHS-539	Population Genetics and Speciation (Theory & Practical)	AHS-549	Gene flow and quantitative genetics (Theory & Practical)
<b>OPTION-B: Socio-Cultural Anthropology (Opt any three)</b>		<b>OPTION-B : Socio-cultural Anthropology (Opt any three)</b>	
AHS-536	Tribal and Rural Anthropology (Theory & Practical)	AHS-546	Tribal Anthropology and Peasant Movements (Theory & Practical)
AHS-537	Medical Anthropology (Theory & Practical)	AHS-547	Cultural Disease and Illness (Theory & Practical)
AHS-538	Practice in Anthropology (Theory & Practical)	AHS-548	Anthropology in Action (Theory & Practical)
AHS-539	Reading in Contemporary Anthropology (Theory & Practical)	AHS-549	Current Anthropology and Policy (Theory & Practical)

**Diploma in Forensic Sc.& Criminology**

Semester-I		Semester-II	
DFSc 1.1	Fundamentals of Forensic Science-I	DFSc 2.1	Fundamentals of Forensic Science
DFSc 1.2	Forensic Anthropology-I	IDFSc 2.2	Forensic Anthropology-II
DFSc 1.3	Forensic Physical Sciences-I	DFSc 2.3	Forensic Physical Sciences-II
DFSc 1.4	Criminology and Criminal Law-I	DFSc 2.4	Criminology and Criminal Law-II
DFSc 1.5	Practical in Forensic Science	DFSc 2.5	Practical in Forensic Science-I

**THRUST AREAS:** Palaeoanthropology and Molecular Anthropology; Human Ecology in North-west India; Continuity and Change; and Bio-cultural Correlates of Health and Disease.

**PLACEMENTS:** Our students have worked for companies like Boeing and Nokia. They have worked as Director of Forensic Science Institute & ICMR and leading Departments in PGIMER. Many have gone abroad and are working in premier institutes and universities there. We are attempting to contact other organizations where high level placements may be provided in the future. We are attempting to get our students placed through individual efforts and through the University Placement Cell.

**ALLUMNI RELATIONS:** We are trying to finalize the list of known alumni. We have had some meetings but we are trying to have some more gatherings and also a frequent interaction with some alumni. We have an Alumni Associate, though in very nascent stage. Prestigious alumni sometimes come to the Department and at that point an interaction is organized with the faculty and the students. The last such interaction was with Dr. Sarabjit Mastana, of Loughborough University, U.K. and Mr. Sandeep Sharma on 03.02.2017. Some years prior to this, the alumni association has held a get-together. The funding for such future meetings are being sought after.

**DEPARTMENT OF BIOCHEMISTRY****ABOUT THE DEPARTMENT**

Department of Biochemistry was started in 1962 and has grown steadily and is now recognized as an important centre of research and teaching in the country. Our teaching oriented Department provides many opportunities for prospective students who can acquire thorough training and degree in contemporary Biochemistry through our honors programme: B.Sc., M.Sc. and Ph.D. Our Department attracts the best students and provides an excellent foundation for, future be it in research, academics or industry.

The department's research focus is primarily on understanding the Molecular basis of disease, Immune disorders, Neurochemistry, Cancer biology, Microbial Biochemistry, Analytical Biochemistry and Environmental Toxicology. The Department is in the GROWTH and BUILDING phase, with induction of new faculty, recognition for funding under FIST programme of Department of Science and Technology, Government of India and Special Assistance Programme of the University Grant Commission. The Department has several sophisticated instruments such as GC-MS, High Speed Centrifuges, UV-Vis Spectrophotometers, Thermocycler, Gel-Doc, Lyophiliser, Spectrofluorimeter, HPLC, Ultracentrifuge and flowcytometer for enhancing research facilities.

The opportunities for Ph.D. are varied and designed to provide solid training as an independent and research scientist, both, in academic as well as industrial settings. Our alumni occupy important positions in India and abroad.

**FACULTY**

Designation	Name	Field of Research Specialization
Emeritus Professor Professors	Akhtar Mahmood	Membrane Transport
	Sukesh Chander Sharma <b>(Chairperson)</b>	Stress Biochemistry
Associate Professors	Rajat Sandhir	Neurochemistry
	Archana Bhatnagar	Immunology
	Navneet Agnihotri	Cancer Biology
Assistant Professors	Amarjit S. Narua	Cellular & Molecular Immunology
	Dipti Sareen	Microbial Biochemistry
	Nirmal Prabhakar	Analytical Biochemistry

**COURSES OFFERED (SEMESTER SYSTEM)**

Course	Seats	Duration	Eligibility*	Admission Criteria
B.Sc. (Hons.)	30+4 NRI	3 Years	Passed +2 examination with 50% marks with English, Physics, Chemistry, Maths / Biology/Biotechnology	Based on PU-CET(UG) Academics: 25% PU-CET(UG):75%
M.Sc.(Hons.)	30+4 NRI	2 Years	B.Sc. (Hons.) Biochemistry or its equivalent exam OR B.Sc. (Pass or Hons.) exam with 50% from any other exams recognized by P.U. as equivalent thereto with Biochemistry as one of the elective subjects	Based on PU-CET(PG) ** Academics: 40% PU-CET(PG):60%
Ph.D	Subject to availability	3-6 Years	See M.Phil/Ph.D. Prospectus 2017	

\*5% Concession admissible in eligibility marks to SC/ST/BC/PwD Candidates  
\*\*After admitting all the ongoing students of B.Sc. (Hons.) 3<sup>rd</sup> year, vacant seats will be filled with candidates on the basis of Entrance Test-PU-CET(PG). B.Sc. (MLT) departments are not eligible. Students who have studied Biochemistry as an elective subject for three years.

**TITLE OF SYLLABI** (Detailed syllabi available at <http://puchd.ac.in/syllabus.php>)

**B.Sc.(Hons)**

<b>Semester-I</b>		<b>Semester-II</b>	
BCH C1	Biomolecules	BCH C3	General Microbiology
BCH C2	Cell Biology	BCH-C4	Molecular Biology
BCH AECC1	English	BCH AECC2	Environmental Science
GE1	Biochemistry of Cell	GE3	Proteins and Enzymes
GE2	Biochemical Techniques	GE4	Biomembranes & Bioenergetics
<b>Semester-III</b>		<b>Semester IV</b>	
BCH C5	Carbohydrates: Structure & metabolism	BCH C8	Lipids: Structure& metabolism
BCH C6	Nitrogenous Compounds: Structure & metabolism I	BCH C9	Nitrogenous Compounds: Structure & metabolism II
BCH C7	Membrane Biology & Bioenergetics	BCH C10	Enzymes & Enzyme Kinetics
SEC1	Tools and techniques in Biochemistry	SEC2	Protein Purification Techniques
GE5	Intermediary Metabolism	GE6	Biochemical Correlations in Diseases
<b>Semester-V</b>		<b>Semester VI</b>	
Paper-1	Fundamental of Molecular Biology-I	Paper-1	Fundamental of Molecular Biology-II
Paper-2	Endocrinology	Paper-2	Plant Biochemistry
Paper-3	Immunology	Paper-3	Neurobiology
		Paper-4	Nutritional Biochemistry
		Paper-5	Practical
<b>M.Sc. (Hons.)</b>		<b>Semester-II</b>	
<b>Semester-I</b>		<b>Semester-II</b>	
Paper-1	Application of Biochemistry to Biotechnology	Paper-1	Advanced Enzymology
Paper-2	Clinical Biochemistry	Paper-2	Medicinal Biochemistry
Paper-3	Biochemical Toxicology	Paper-3	Industrial Biochemistry
Paper-4	Molecular Cell Biology	Paper-4	Molecular & Cellular Immunology
Paper-5	Practical	Paper-5	Practical
<b>Semester-III</b>		<b>Semester IV</b>	
Paper-1	Genomics and Bioinformatics	Paper-1	Dissertation
Paper-2	Computational Techniques & Biostatistics	Paper-2	Seminar
Paper-3	Comprehensive Examination	Paper-3	Current Topics in Biochemistry
Paper-4	Journal Club		
Paper-5	Practical		

**THRUST AREAS :** Molecular basis of Diseases, Neurochemistry, Cancer Biology, Microbial Biochemistry, Immunology, Natural Products Biochemistry, Analytical Biochemistry and Biochemical Toxicology.

**PLACEMENTS:** Students get placement in Pharmaceutical and Biotechnology based companies.

**ALUMNI RELATIONS:** Sometimes meetings are held.

## DEPARTMENT OF BIOPHYSICS

### ABOUT THE DEPARTMENT

Biophysics has in recent times emerged as an important interdisciplinary subject in Life Science and primarily deals with the structure, bioenergetics, dynamics and function of the biomolecules. Over the years, the discipline of biophysics has played a significant role in the growth of critical areas, which include molecular biophysics, physiological biophysics, medical physics, radiation Biophysics, gene and protein engineering, neuro degenerative disorders and membrane biophysics. Advances in these areas have paved newer initiatives for the designing and development of drugs and medical technologies. The Department of Biophysics was established in 1964 and ever since is the only department in the country. which offers both undergraduate and postgraduate courses in the discipline of Biophysics (Hons.). The department also offers excellent research opportunities leading to the award of Ph.D. degree. The courses being offered to the three year B.Sc (Hons.) and two year M.Sc (Hons.) students in Biophysics are planned in a way, so as to provide a broad base in the subject and are accepted in the diverse fields of biomedical sciences. Alumni from this department have always been suitably employed and many of them have occupied coveted positions in the academia, industry, medical institutions, national laboratories and prestigious research institutions in India and abroad.

The department has been given special assistance grants under UGC-SAP programme, Phase DSA-I from April 2015-2020. The department is also recognized under DST-FIST Programme. In addition the Department is availing DST PURSE Grant on a regular basis. For more details see the website <http://biophysics.puchd.ac.in>

### FACULTY

Designation	Name	Field of Research Specialization
Prof. Emeritus	G.S. Gupta	Proteomics and Cancer-Testis Antigens
Emeritus Scientist (UGC)	M.P.Bansal	Oxidative Stress mechanisms and its modulation in male reproduction
Emeritus Medical Scientist (ICMR)	S.N.Sanyal	Cancer Cell and Molecular Biology
Prof. Re-employed	Bimla Nehru	Neurobiology
Professors	D.K. Dhawan	Nuclear Medicine and Radiation Biophysics
	M.L.Garg	Spectroscopic & Computational Studies of metalloproteins, Biomedical Instrumentation
	<b>(Chairperson)</b>	Phytomedicine & Carcinogenesis
Assistant Professors	Ashwani Koul	Structural & Computational Biophysics of peptides
	Avneet Saini	Molecular Biology of Reproduction
	Sarvnrinder Kaur	Proteomics of Pathological Calcification
	Tanzeer Kaur	Molecular Cell Physiology of Cancer
	Pavitra Ranawat	Anti Microbial and anti cancer peptides
	Simran Preet	Cell Biology & Molecular Immunology
	Naveen Kaushal	

### COURSES OFFERED (SEMESTER SYSTEM)

Course	Seats	Duration	Eligibility*	Admission Criteria
B.Sc (Hons.)	25 +4 NRI	3 Years	Passed 10+2 examination with at least 50 % marks with English, Physics, Chemistry, Mathematics/ Biology/ Computer Science.	Based on P.U.CET(UG) Academics: 25% P.U.CET(UG):75%
M.Sc (Hons.)	25+4 NRI	2 Years	B.Sc. (Hons.) in Biophysics of Panjab University OR B.Sc./B.Sc. (Hons.) in Biophysics/ Bioinformatics/Biotechnology of the Panjab University or any other examination recognized as equivalent OR B.Sc. with Physics, Chemistry and any one of the subjects from Life Sciences as the subjects during all the three years of the graduation.	Ongoing Course. Vacant seats will be filled through P.U.CET(PG) Academics: 40% P.U.CET(PG): 60%
Ph.D.	10	3-6 Years	See M.Phil /Ph.D Prospectus 2017	

\*5% Concession admissible in eligibility marks to SC/ST/BC/PwD Candidates

**TITLES OF SYLLABUS:** (Detailed Syllabus available at : [www.puchd.ac.in/syllabus.php](http://www.puchd.ac.in/syllabus.php))

**B.Sc. (Hons.)**

<b>Semester-I</b>		<b>Semester-II</b>	
BCH-C1	Biomolecules	MIC-C3	General Microbiology
BPH-C2	Cell Biology	BTC-C4	Molecular Biology
BPH AECC1	English	BPH AECC2	Environmental Science
GE1*		GE3*	
GE2*		GE4*	
Four core courses in first year will run simultaneously in both semester under PU-IMBSER			
<b>Semester III</b>		<b>Semester IV</b>	
BPH -C5	Physics Of The Human Body	BPH -C8	Human Physiology and Anatomy II
BPH- C6	Physicochemical Techniques	BPH -C9	Biophysical Chemistry
BPH-C7	Human Physiology And Anatomy I	BPH-C10	Radiation And Biomedical Instrumentation
SEC 1		SEC 2	
GE5*		GE6*	
<b>Semester V</b>		<b>Semester VI</b>	
BCH-C11	Radiation Biophysics	BPH-C13	Gene And Protein Engineering
BPH-C12	Bioinformatics And Computational Biology	BTC-C14	Molecular Biophysics
DSE1		DSE3	
DSE2		DSE4	
C: Core Courses; GE: General Elective; AECC: Ability Enhancement Compulsory Courses; SEC: Skill Enhancement Courses; DSE: Discipline Specific Elective Elective/General Elective: Generic Elective Subjects (Offered by Biophysics Department) for students of other departments			
<b>Semester I</b>		<b>Semester II</b>	
BPH-GE1	Physicochemical Techniques	BPH-GE3	Radiation Biophysics
BPH-GE2	Human Physiology and Anatomy	BPH-GE4	Biomedical Instrumentation
<b>Semester III</b>		<b>Semester IV</b>	
BPH-GE5	Molecular Biophysics	BPH-GE6	Bioinformatics and Computational Biology
SKILL ENHANCEMENT COURSES (any one per semester in semesters 3-4) for students of biophysics department			
BPH-SEC1	Biophysics : Industrial and Clinical Applications	BPH-SEC3	Sports Medicine
BPH-SEC2	Human Genetics and its Applications	BPH-SEC4	Soft Skills Development
<b>Discipline Specific Elective Courses</b> (any two per semester in semesters 5-6) for students of biophysics department.			
<b>Semester V</b>		<b>Semester VI</b>	
BPH-DSE1	Biomolecular Spectroscopy	BPH-DSE5	Neuro Biophysics
BPH-DSE2	Biomedical Imaging	BPH-DSE6	Gene Organization and regulation
BPH-DSE3	Advanced Microscopy	BPH-DSE7	Immunology
BPH-DSE4	Biomaterials	BPH-DSE8	Cell and Tissue culture Techniques
<b>M.Sc.(Hons.)</b>			
<b>Semester I</b>		<b>Semester II</b>	
BP-4101	Cell and Membrane Biophysics	BP-4201	Molecular dynamics of membranes
BP-4102	Moleculuar basis of Gene and Protein Engineering	BP-4202	Gene and Protein Engineering
BP-4103	Biomolecular spectroscopy	BP-4203	Spectroscopy Techniques and Crystallography
BP-4104	Medical Physics	BP-4204	Medical Imaging
BP-4105	Bioinformatics and its applications	BP-4205	Molecular Modelling and applications
BP-4151	Practical –I (Related to BP- 4101-05)	BP-4251	Practical –I (Related to BP- 4201-05)



Semester-III		Semester IV	
BP-5301	Advanced Topics in Biophysics (Seminars/Journal Club)	BP-5401	Thesis Seminar
BP-5302	Comprehension of the NET syllabus for Life Sciences	BP-5402	Viva- Voce and Thesis examination
BP-5303	Pre Thesis Seminar		

**Note:** Supervisors for guidance of the M.Sc. thesis work shall be allotted in the beginning of Semester III.

**THRUST AREAS:** Cellular and Molecular Biophysics, Membranes Biophysics, Radiation Biophysics and Cancer Biophysics.

**PLACEMENT:** In recent years the alumni are placed as post doctoral fellows (PDF) at abroad and faculty/scientists in institutions such as sports authority of India, Medical colleges in, Universities. Besides many students have been placed as teachers in Govt. schools. Few students every year get opportunity to join Ph.D courses in Europe, America and Australia etc. after fulfilling admission criterion of these institutions. Many students after clearing the NET/GATE examinations and obtaining inspire fellowships join the national institutions like IISER, IIT,PGIMER, CSIO and Panjab University. Few students have recently joined Pharma-co-vigilance corporate sector like Parexel International(Formerly quantum solutions),TCS(Tata Consultancy services), Spectra force. Some students have chosen to be entrepreneur and have started their own start up.

**ALUMNI RELATIONS:** Department keep constant contact with its alumni. Whenever, they come India from Europe and USA they make it a point to visit department and interact with its faculty and students. Alumni arrange their own annual meets through ASSOBA. The Department holds alumni meets at regular intervals.

## DEPARTMENT OF BIOTECHNOLOGY

### ABOUT THE DEPARTMENT

The Department came into existence as Centre in 1989. In 1993 after obtaining financial aid from UGC and DBT, Govt. of India, it was upgraded to the level of full-fledged Department. The Department is rated as one of the best in India for imparting state of art technology to the students in the field of biotechnology. Most of the students qualify UGC and CSIR entrance test in their first attempt and are admitted to Ph.D. programmes in prestigious research institutions in India. Most of the faculty members have been trained abroad and are recipient of prestigious National and International awards. The faculty of the Department publishes research papers in National and International journals on regular basis. Every year Department organizes Workshop/Symposium/Seminar dealing with contemporary technologies. Scientists of International repute are invited to deliver lectures. The Department has the distinction of being funded by DST-FIST (2002-07; 2011-16) and UGC-SAP (2007-12; 2013-18).

### FACULTY

#### Designation

#### Field of Research specialization

Professor Emeritus R.C. Sobti  
 Professors Jagdeep Kaur  
 Neena Capalash  
 Jagtar Singh  
**(Chairperson)**  
 Desh Deepak Singh  
 Assistant Professor Kashmir Singh

#### Name

Molecular Diagnosis of Cancer  
 Molecular Biology & Protein Biochemistry  
 Microbial Biotechnology & Cancer Biology  
 Immunology & Molecular Epidemiology  
 Animal Biotechnology  
 Bioinformatics and Structural Biology  
 Plant Biotechnology

### COURSES OFFERED (SEMESTER SYSTEM)

Course	Seats	Duration	Eligibility*	Admission Criteria
B.Sc. (Hons.)	15+2NRI	3 Years	50% marks in 10+2 or equivalent examination with the subjects English, Physics, Chemistry, Mathematics, Biology, Biotechnology/Computer Science.	Based on PU-CET(UG) Academics: 25% PU-CET(UG):75%
M.Sc. (Hons.)	Ongoing Class	2 Years	For ongoing class: Passed B.Sc. (Hons.) Biotechnology from PU.	Ongoing Class
	5 General+2 SC +2 NRI		B.Sc. Biotechnology with 50% marks/ B.Sc. with 50% marks with Biotechnology as elective /vocational subject (Studied for 3 years).	Based on PU-CET(PG)** Academics: 40% PU-CET(PG) :60%

Ph.D.	Subject to availability	3-6 Years	See M.Phil/Ph.D. Prospectus 2017
*5% Concession is admissible in eligibility marks to SC/ST/BC/PwD Candidates			
**The candidates seeking admission in M.Sc. Biotechnology should fill separate admission forms in colleges offering M.Sc. course in Biotechnology. No Centralized Counselling will be done by the Department.			

**TITLES OF SYLLABI** (Detailed syllabi available at <http://puchd.ac.in/syllabus.php>)

### B.Sc. (Hons.)

Semester-I		Semester-II	
Paper-1	General Microbiology	Paper-1	Biomolecules
Paper-2	Molecular Biology	Paper-2	Cell Biology
Paper-3	English	Paper-3	Environment Education
Paper-4	Generic Elective 1	Paper-4	Generic Elective 3
Paper-5	Generic Elective 2	Paper-5	Generic Elective 4
Semester-III		Semester-IV	
Paper-1	Chemistry-I	Paper-1	Chemistry-II
Paper-2	Enzymology	Paper-2	Bio Analytical Tools
Paper-3	Plant Physiology	Paper-3	Bioprocess Technology
Paper-4	Skill Enhancement Course 1	Paper-4	Skill Enhancement Course 2
Paper-5	Generic Elective 5	Paper-5	Generic Elective 6
Semester-V		Semester-VI	
Paper-1	Fundamentals of Immunology	Paper-1	Fermentation Technology
Paper-2	Plant Cell & Tissue Culture	Paper-2	Genetic Engineering
Paper-3	Environmental Biotechnology	Paper-3	Tools in Biotechnology-II
Paper-4	Molecular Biology	Paper-4	Food Biotechnology
Paper-5	Molecular Genetics	Paper-5	Seminars on Recent Advances in Biotechnology
M.Sc. (Hons.)		Semester-I	
Paper-1	Animal Cell Culture Technology	Paper-1	Bioinformatics
Paper-2	Advanced Immunology	Paper-2	Microbial Biotechnology
Paper-3	Advanced Recombinant DNA Technology	Paper-3	Intellectual Property Rights, Biosafety & Bioethics
Paper-4	Advanced Molecular Biology	Paper-4	Scientific Writing & Project Management
Semester-III		Semester-IV	
Paper-1	Animal Biotechnology	Research Project	
Paper-2	Plant Biotechnology	a) Thesis	
Paper-3	Emerging Technologies	b) Presentation & Viva	
Paper-4	Trends in Biotechnology (Seminar)	c) Internal Assessment	

**THRUST AREAS:** Molecular Epidemiology, Microbial Biotechnology, Plant Biotechnology, Glycobiology of Infectious Diseases.

**PLACEMENTS :** Faculty of the Department provides career counselling to the students and helps them to choose profession of their choice. More than 50% M.Sc. students prefer to join Ph.D after clearing competitive exams (UGC/CSIR/DBT/ICMR NET etc). Few of our M.Sc. students are doing Ph.D in countries like US, Canada, EU etc. After completing Ph.D students are placed in teaching/research institutes and a few go abroad for Postdoctoral Fellowships. The Department provides a platform to encourage the students for joining private sector in the field of biotechnology.

**ALUMNI RELATIONS:** The Department maintain the record of pass out students and time to time invites past students to interact with present students by conducting seminars, symposia etc.

## DEPARTMENT OF BOTANY

### ABOUT THE DEPARTMENT

The Department of Botany was established in 1919 at Lahore. It shifted to Chandigarh in 1960 from Khalsa College, Amritsar where it was housed temporarily after partition of the country. The Department has grown into a well recognised centre for higher learning and research in structural, functional and evolutionary aspects of plants. The department had DST-FIST programme and had completed UGC DRS-II phase. Some of the major areas of research are: taxonomy, morphology, improvement and propagation of economically important plants, ecology of invasive alien plants, physiological upgradation of harvest index of some important crops; stress biology of legumes; identification of eco-friendly herbicides and pesticides; mushroom cultivation; evaluation and conservation of plant diversity; and importance of microbes in human welfare. In addition to teaching through modern techniques, seminars, symposia, workshops, invited lectures and botanical excursions are an integral part of academic programme. The department has a well-stocked library with nearly 6,600 books and over 60 regular scientific journals. The department also houses an internally recognised Herbarium (abbreviated as PAN) and a Museum. The P.N. Mehra Botanical Garden, spread over 16 acres of land is one of the better-known botanical gardens attached to any university of the country. The department has been getting regular sanction for BSR fellowships under UGC-SAP (DRS-III) programme. Additionally, the UGC also sanction funds to the department for infrastructural development from time to time. Besides this, many projects are being funded by DST, MoEF, UGC, CSIR and DBT.

### FACULTY

Designation	Name	Field of Research Specialization
Prof. Emeritus	S.C. Verma	Cytogenetics
	M.L. Sharma	Angiosperm taxonomy and grasses
	S.S. Kumar	Bryology
	S.P. Khullar	Pteridophytes
Honorary Professor	S.S. Chahal	
	A.S. Ahluwalia	Algal diversity & Physiology
Professors	Harsh Nayyar	
	<b>(Chairperson)</b>	Plant Physiology
	Daizy Rani	Ecology (Eco-Physiology)
	C. Nirmala	Cytogenetics, Molecular Biology and Biotechnology
	P. Pathak	Morphology and Morphogenesis
	Sunita Kapila	Bryology
	I.B. Prasher	Mycology and Plant Pathology
	Richa Puri	Biosystematics and Seed Physiology
	Neera Garg	Plant Physiology
	Kamaljit Singh	Plant Physiology and Biochemistry
	Associate Professors	Anju Rao
M.C. Sidhu		Cytogenetics/Plant Breeding
Assistant Professors	A.N. Singh	Ecology
	Shalinder Kaur	Eco-physiology
	Santosh K. Upadhyay	Molecular Biology and Insecticides Proteins
	Jaspreet Kaur	Tissue Culture and Molecular Biology
	Papiya Mukherjee	Cryo-Biology and Molecular Biology

### COURSES OFFERED (SEMESTER SYSTEM)

Course	Seats	Duration	Eligibility*	Admission Criteria
B.Sc. (Hons.)	20+3NRI	3 Years	Passed 10+2 examination with at least 50% marks with Physics, Chemistry, Biology and English from recognized Board/CBSE	Based on PU-CET(UG) Academics: 25% PU-CET(UG):75%
M.Sc. (Hons.)	25+4 NRI	2 Years	B.Sc. (Hons.) OR B.Sc. (Pass or Hons.) with 50% marks from P.U. or any other recognised University or any other exam as equivalent thereto with Botany as one of the elective subject.	Based on P.U.CET(PG) Academics: 40% PU- CET(PG):60%

M.Phil	15	1 Year	See M.Phil/Ph.D. Prospectus 2017
Ph.D	15	3-6 Years	See M.Phil/Ph.D. Prospectus 2017

\*5% Concession is admissible in eligibility marks to SC/ST/BC/PwD Candidates

**TITLES OF SYLLABI :** (Detailed syllabus available at <http://puchd.ac.in/syllabus.php> )

**B.Sc. (Hons.)**

<b>Semester-I</b>		<b>Semester-II</b>	
(C 1)	Phycology & Microbiology	(C 3)	Mycology & Phytopathology
(C 2)	Biomolecules & Cell Biology	(C 4)	Archegoniate
(C 1 Lab)	Core Course-1 : Practical	(C 3 Lab)	Core Course-3: Practical
(C 2 Lab)	Core Course-2 : Practical	(C 4 Lab)	Core Course-4: Practical
AECC1	English	AECC2	Environmental Science
<b>Theory Papers</b>		<b>Theory Papers</b>	
(GE-1)	Biodiversity (Microbes, Algae, Fungi and Archegon)	(GE-3)	Plant Anatomy and Embryology
(GE-2)	Plant Ecology and Taxonomy	(GE-4)	Plant Physiology and Metabolism
<b>Practicals</b>		<b>Practicals</b>	
(GE-1 Lab)	Generic Elective -1	(GE-3Lab)	Generic Elective -3
(GE-2 Lab)	Generic Elective -2	(GE-4 Lab)	Generic Elective -4
<b>Semester-III</b>		<b>Semester-IV</b>	
Theory Papers		Theory Papers	
(C 5)	Morphology & Anatomy	(C 8)	Molecular Biology
(C 6)	Economic Botany	(C 9)	Plant Ecology & Phytogeography
(C 7)	Basics of Genetics	(C10)	Plant Systematics
(C 5 Lab)	Core Course-5: Practical	(C 8 Lab)	Core Course-8: Practical
(C 6 Lab)	Core Course-6: Practical	(C 9 Lab)	Core Course-9: Practical
(C 7 Lab)	Core Course-7: Practical	(C10 Lab)	Core Course-10: Practical
SEC: 1		SEC: 2	
Theory Papers:		Theory Papers:	
(GE-5)	Economic Botany and Biotechnology	(GE-6)	Environmental Biotechnology
(GE-5 Lab)	Practicals Generic Elective -5	(GE-6 Lab)	Practicals Generic Elective -6
<b>Semester-V</b>		<b>Semester-VI</b>	
Paper-1	Taxonomy of Angiosperms	Paper-1	Mycology and Lichenology
Paper-2	Plant Ecology	Paper-2	Plant Physiology
Paper-3	Genetics	Paper-3	Plant Biochemistry
Paper-4	Plant Breeding	Paper-4	Microbiology – Viruses, Bacteria, Mycoplasma
Paper-5	Molecular Biology	Paper-5	Embryology of Angiosperms

**M.Sc. (Hons.)**

<b>Semester-I</b>		<b>Semester- II</b>	
Paper-1	Bryology	Paper-1	Phycology
Paper-2	Pteridology	Paper-2	Plant Anatomy
Paper-3	Gymnosperms	Paper-3	Taxonomy of Angiosperms
Paper-4	Plant Resource Utilization	Paper-4	Cytogenetics & Plant Breeding
Paper-5	Angiosperms: Phylogeny & Embryology	Paper-5	Environmental Botany
<b>Semester-III</b>		<b>Semester-IV</b>	
Paper-1	Mycology	Paper-1	Plant Pathology
Paper-2	Plant Physiology	Paper-2	Biostatistics & Research methodology
Paper-3	Plant Biochemistry	Paper-3	Plant Biotechnology & Genetic Engineering
Paper-4	Molecular Biology	Paper-4	Comprehensive Test & Field Botany
Paper-5	Ecosystem Ecology & Forestry	Paper-5	Project & Seminar

**THRUST AREAS:** Phycology, Mycology, Bryology, Taxonomy, Morphology, Physiology, Cytology, Plant Biotechnology, Biochemistry and Ecology.

**PLACEMENT:** The department has a Placement Cell which Co-ordinates with Central Placement of the University to get time to time information about the opportunities available to the students of the department.

**ALUMNI RELATIONS:** The department has alumni association i.e. Panjab University Botany Department Alumni Association (PUBDAA), which has Executive Committee and several members. The department organises Alumni Meet every year to maintain contact with the alumni as well as to provide the latest happenings of the department to members. Several of its alumni are highly distinguished and working in different capacities at National and International level.

## DEPARTMENT OF CHEMISTRY

### ABOUT THE DEPARTMENT

Founded by Dr. S. S. Bhatnagar at Lahore in 1925, the Department of Chemistry is one of the prestigious Departments of Panjab University. It has on its faculty highly competent members whose work has been internationally recognized. Several faculty members are recipients of awards and honours, such as Shanti Swarup Bhatnagar, Jawaharlal Nehru Fellowship, Raman and Palit awards. Many faculty members are bestowed with F.N.A., F.A.Sc., F.N.A.Sc. The Department has been selected by the UGC first for COSIST and Special Assistance Programme (SAP) and it is the Centre of Advanced Studies in Chemistry (CAS) for the last 16 years. The Department of Science and Technology (DST), Government of India has accorded it the status of "DST-FIST Supported Department". The Department has stimulating undergraduate and postgraduate teaching programmes. Frequent symposia, conferences, invited lectures and refresher courses have been organized for the benefit of University, College and School teachers and talented students. The Department has good instrumental facilities and its library is perhaps one of the best in Northern India with its excellent collection of books, research journals and monographs. The Department is well-known for its research activities and has very well equipped research Laboratories.

### FACULTY

Designation	Name	Field of Research Specialization
Honorary Professor	T. Ramasami	
Professors Emeritus	S. V. Kessar	Organic
	D. V. S. Jain	Physical
	Gurdev Singh	Inorganic
	D. S. Gill	Analytical
CSIR Emeritus Scientist	K. K. Bhasin	Inorganic
Professors (Re-employed)	Paramjit Singh	Organic
	Sukhjinder Singh	Inorganic
Professors	S. K. Mehta	Physical
	P. Venugopalan	Inorganic/Analytical
	<b>(Chairperson)</b>	
	Alok Srivastava	Physical
	Kamal Nain Singh	Organic
Associate Professors	Ganga Ram Chaudhary	Physical
	Sonal Singhal	Inorganic
	Navneet Kaur	Organic
	Gurjaspreet Singh	Inorganic
Assistant Professors	Amarjit Kaur	Organic
	Vikas	Physical
	Neetu Goel	Physical
	Aman Bhalla	Organic
	Navneet Kaur	Organic
	Varinder Kaur	Inorganic
	Shweta Rana	Physical
	Rohit Kumar Sharma	Organic
	Ramesh Kataria	Inorganic
	Subash Chandra Sahoo	Inorganic
	Gurpreet Kaur	Physical
	Savita Chaudhary	Physical

	Deepak B. Salunke	Organic
	Palani Natarajan	Inorganic
	Jyoti Agarwal	Organic
UGC Assistant Professors (FRP)	Purshotam Sharma	Physical
	Ankur Ganesh Pandey	Organic
	Abhijit Dan	Physical
UGC Research Scientist 'C'	Jasvinder Singh	Organic
Assistant Professors	Khushwinder Kaur	Physical
(Inspire Faculty)	Girijesh Kumar	Inorganic
	Ranjan Patra	Inorganic

**COURSES OFFERED (SEMESTER SYSTEM)**

Courses	Seats	Duration	Eligibility*	Admission Criteria
B.Sc. (Hons.)	58+8 NRI	3 Years	Passed 10+2 examination from recognized Board/CBSE with at least 50% marks with Physics, Chemistry, Mathematics, Biology and English	Based on PU-CET(UG) Academics: 25% PU-CET(UG): 75%
M.Sc. (Hons.)	15+2 NRI	2 Years	i) Passed B.Sc. (Hons.) in Chemistry from department of Chemistry, P.U. ii) B.Sc. (Pass or Hons.) examination with 50% marks from PU or any other University recognized as equivalent thereto with (a) Chemistry in all the three years/six semesters and (b) any two science subjects during two years /four semesters during graduation.	Based on PU-CET(PG) Academics: 40% PU-CET(PG) :60%
Ph.D.	10	3-6Years	See M.Phil/Ph.D Prospectus 2017	

\*5% Concession is admissible in eligibility marks to SC/ST/BC/PwD Candidates

**TITLES OF SYLLABI** (Detailed syllabus available at <http://puchd.ac.in/syllabus.php>)

**B.Sc (Hons.)**

Semester-I	Semester II
<p>Theory</p> <p>Core Course-1 Inorganic Chemistry-I</p> <p>Core Course-2 Physical Chemistry-I</p> <p>Practicals</p> <p>Core Course-1 Inorganic Chemistry-I</p> <p>Core Course-2 Physical Chemistry-I</p> <p>GENERIC ELECTIVE (GE)</p> <p>Each student of Chemistry Department has to opt two Generic Elective Courses from the available options offered by different science, Mathematics, Computer Science and Economics departments. However, a student can take only one GE course from one department per semester.</p> <p>Ability enhancement compulsory course:</p> <p>Each student of Chemistry Department has to opt one Ability Enhancement Compulsory Course of the following: (a) English Communication (2 credits); (b) Environmental Science (2 credits)</p> <p>GENERIC ELECTIVE (CHEMISTRY) Theory Papers:</p> <p>A student from other disciplines may opt any one of the generic electives offered by the Chemistry Departments:</p>	<p>Theory</p> <p>Core Course-3 Organic Chemistry-I</p> <p>Core Course-4 Physical Chemistry-II</p> <p>Practicals</p> <p>Core Course-3 Organic Chemistry-I</p> <p>Core Course-2 Physical Chemistry-II</p> <p>GENERIC ELECTIVE (GE)</p> <p>Each student of Chemistry Department has to opt two Generic Elective Courses from the available options offered by different science, Mathematics, Computer Science and Economics departments. However, a student can take only one GE course from one department per semester.</p> <p>Ability Enhancement Compulsory Course:</p> <p>Each student of Chemistry Department has to opt one Ability Enhancement Compulsory Course of the following: (a) English Communication (2 credits); (b) Environmental Science (2 credits)</p> <p>GENERIC ELECTIVE (CHEMISTRY):</p> <p>Theory Paper: Opt one of the generic electives offered by the Chemistry Departments</p>

Generic Elect-1 Generic Elec-2 Practicals Generic Elec -1 Practical (GE-1 Lab) Generic Elect-2 Practical (GE-2 Lab)	Generic Elec-3 Generic Elec-4 Practicals (GE-3 Lab) Practical (GE-3 Lab) (GE-4 Lab) Practical (GE-4 Lab)
<b>Semester III</b>	<b>Semester IV</b>
(C 5) Theory Inorganic Chemistry-II (C 6) Theory Organic Chemistry-II (C 7): Theory Physical Chemistry-III Practicals: (C 5 Lab): Inorganic Chemistry-II (C 6 Lab): Organic Chemistry-II (C 7 Lab): Physical Chemistry-III	(C 8) Theory Inorganic Chemistry-III (C 9) Theory Organic Chemistry-III (C 10) Theory Physical Chemistry-IV Practicals: (C 8 Lab) Inorganic Chemistry-III (C 9 Lab) Organic Chemistry-III (C 10 Lab) Physical Chemistry-IV
SKILL ENHANCEMENT COURSES (OPT ANY ONE) 1. CHE-SEC1: IT Skills for Chemists 2. CHE-SEC2: Basic Analytical Chemistry	SKILL ENHANCEMENT COURSES ( OPT ANY ONE) 1. CHE-SEC3: Analytical Clinical Biochemistry 2. CHE-SEC4: Chemical Technology & Society
GENERIC ELECTIVE (GE) Each student of Chemistry Department has to opt one Generic Elective Course from the available options offered by different science, mathematics, computer science and economics departments. However, a student can take only one GE course from one department per semester.	GENERIC ELECTIVE (GE) Each student of Chemistry Department has to opt one Generic Elective Course from the available options offered by different science, mathematics, computer science and economics departments. However, a student can take only one GE course from one department per semester.
GENERIC ELECTIVE (CHEMISTRY) A student from other disciplines may opt following generic elective offered by the Chemistry Departments of Panjab University out of: Theory: Generic Elective -5 (GE-5) Practicals Generic Elective -5 Practical (GE-5 Lab)	GENERIC ELECTIVE (CHEMISTRY) A student from other disciplines may opt following generic elective offered by the Chemistry Departments of Panjab University out of: Theory : Generic Elective (GE-6) Practicals Generic Elective-6 Practical (GE-6 Lab)
<b>Semester-V</b>	<b>Semester-VI</b>
CH-311 Physical Chemistry CH-312 Inorganic Chemistry CH-313 Organic Chemistry CH-314 Industrial Chemistry Practicals (a) Physical Practical (b) Inorganic Practical (c) Organic Practical	CH-321 Physical Chemistry CH-322 Inorganic Chemistry CH-323 Organic Chemistry CH-324 Analytical Chemistry Practicals (a) Physical Practical (b) Inorganic Practical (c) Organic Practical
<b>M.Sc. (Hons.)</b>	
<b>Semester-I</b>	<b>Semester-II</b>
<b>Theory</b> CH-411 Physical methods of analysis and structure determination CH-412 Organotransition Metal Chemistry and Inorganic Polymers CH-413 Organic synthesis	<b>Theory</b> CH-421 Spectroscopic method of structure determination CH-422 Bioinorganic Chemistry CH-423 Bioorganic Chemistry

CH-414	Quantum Chemistry	CH-424	Surfactants, Macromolecules and Nanomaterials
CH-415	Fundamentals and Applications of Computers in Chemistry	CH-425	Project Work (Departmental Elective)
CH-416	Advanced Practicals		
<b>Semester-III</b>		<b>Semester-IV</b>	
CH-511	Main Group Chemistry and Inorganic photochemistry	CH-521	Advanced Statistical Thermodynamics and Symmetry
CH-512	Chemistry of Natural Products	CH-522	Special Paper: Electrochemistry & Molecular reaction dynamics OR Current Trends in Organic Synthesis OR Advanced Inorganic Chemistry
CH-513	Research Project Work (Departmental Elective)	CH-523	Research Project Work (Departmental Elective)

**THRUST AREAS:** Synthetic Chemistry (Both Inorganic and Organic), Heterocyclic, Natural Products and Green Chemistry, Nanotechnology and Nuclear Chemistry, Colloidal, Biophysical, Theoretical and Computational Chemistry.

**PLACEMENT:** Many Post-graduate students pursue career in teaching and research after qualifying CSIR/UGC National Eligibility Test (NET). Our Students are absorbed for job/research in premier institutions like IISc, TIFR, BARC, DRDO, ISRO, IMSC, IIT, NCL, NPL and IISER. GATE/GRE qualified students get avenues for professional studies in India/Abroad. Some graduate students go for Post- graduate studies at TIFR, IISc, IMSc, IITs and various Central Universities. Students also find jobs through PU Central Placement Cell besides the Placement Cell of the department.

**ALUMNI RELATIONS:** Chemistry department has produced many distinguished alumni, who have adored both administrative/executive and scientific positions in our country and abroad. The department has an association named "Chemistry Department Alumni Association, Panjab University (CDAAPU). Annual meeting of the alumni is a regular feature. Executive members of the alumni association meet frequently to discuss the activities of the association. CDAAPU provides fellowships to needy students out of the interest accrued from contribution of alumni of 1968 batch.

## DEPARTMENT OF COMPUTER SCIENCE AND APPLICATIONS

### ABOUT THE DEPARTMENT

The Department of Computer Science and Applications was set up as a Centre in 1983. It got the status of the Department of Computer Science and Applications in 1997. The department offers various professional educational programmes like Ph.D. programme, Master of Computer Applications (MCA – Morning) a three year full time course, MCA (Evening) (Self Financing) – a 3 year full time self financing course and Master of Science (Honors) in Computer Science. For these Post Graduate degree courses, admissions are held through an entrance test conducted by the Panjab University. The quality of input is really good as both Indian as well as foreign students are attracted towards these programmes.

The department has qualified, regular and competent faculty members with Ph.D./M.Tech./MCA (UGC NET) qualifications. Being a professional course, the curriculum is revised regularly to keep abreast of the latest advancements in the industry as well as the academia. Almost all the students at DCSA are well placed in various reputed companies. The department has an excellent infrastructure including laboratories, library, Internet facility, wireless networks and teaching – learning aids like smart classrooms. The faculty is performing and guiding research in different areas of Computer Science and Applications

### FACULTY

Designation	Name	Field of Research Specialization
Professors	Ravinder Kumar Singla <b>(Chairperson)</b>	Software Engineering, Web Semantics, Computer Network / Security
	M. Syamala Devi	Distributed Artificial Intelligence, Image Processing, Educational Technology
	Indu Chhabra	Neural Networks, Image Processing, Data Mining, Software Engineering
	Sonal Chawla	Semantic Web Applications, Programming Languages, Advanced Databases, Operating System



	Anu Gupta	Software Engineering, Open Source Software, Cloud Computing, Java Programming
Assistant Professors	Jasleen Kaur Bains	Java Programming, Image Processing, Pattern Recognition
	Rohini Sharma	Network Security, Design and Analysis of Algorithms
	Balwinder Kaur	RDBMS, Software Engineering, Operating System, Data Warehouse and Data Mining, Computer Organization
	Anuj Kumar	Image Processing, Pattern Recognition, Open Source Software
	Anuj Sharma	Pattern Recognition, Machine Learning
	Kavita Taneja	Mobile Ad Hoc Networks, Web Information Computing, Database Management System
	Supreet Kaur Mann	Wireless Sensor Networks, Networking

**COURSES OFFERED (SEMESTER SYSTEM)**

Course	Seats	Duration	Eligibility*	Admission Criteria
M. Sc (Hons.)	11+2 NRI	2 Years	BCA /B.Sc. (Hons.) Computer Science / B. Tech./B.E. (Computer Science/ Engineering) or any other examination recognized as equivalent with 50% marks thereto.**	Based on PUCET(PG) Academics: 40% PUCET(PG): 60%
(i)M.C.A. (ii)M.C.A (Evening) Self-financing	34+ 2#+5 NRI 46+ 2#+6 NRI	3 Years 3 Years	i. A recognized first degree of minimum three years duration in any discipline with at least 50% marks and with Mathematics at 10+2 or at graduation level (all three years) OR ii. B.C.A. from Panjab University with 50% marks OR iii. Any examination recognized by the Panjab University Chandigarh as equivalent to any of the above examination (i) or (ii)	Based on PUCET(PG) Academics: 50% PUCET(PG): 50%
Ph.D.	Subject to availability	3-6 Years	See M.Phil / Ph.D Prospectus 2017	

\* 5% Concession is admissible in eligibility marks to SC/ST/BC/PwD Candidates

\*\*However, the candidates who have studied Computer Science/Computer Applications/ Information Technology as one of the elective subjects at graduation level in all the three years, are not eligible for admission to M.Sc.(Hons.) in Computer Science & Applications.  
#For candidates who have studied Computer Science as one of the subjects for three years / or that subject as a full course at the under graduate level.

**TITLE OF SYLLABI** (Detailed syllabi available at : <http://puchd.ac.in/syllabus.php> )

**M.C.A.**

Semester - I		Semester - II	
CS-55	Computer Fundamentals and C Programming	CS-63	Data and File Structures(Using C)
CS-60	Computer Organization and Assembly Language	CS-64	Object Oriented Programming (Through C++ and Java)
CS-61	Data Base Management Systems	CS-48	Data Communication and Networks
CS-73	Mathematical, Numerical And Statistical Techniques (Elective I)	CS-74	Current trends and technologies (Elective III)
CS-56	Linux Operating System (Elective II)	CS-07	Accounting and Financial Management (Elective IV)
PR-11	Computer Fundamentals and C Language (Minor Project)	PR-03	C++ and Java Programming Language (Minor Project)
PR-12	Linux Operating System (Minor Project)	PR-04	Data Structures (Minor Project)

<b>Semester - III</b>		<b>Semester - IV</b>	
CS-65	Software Engineering	CS-70	Data Mining and Data Warehousing
CS-66	Operating Systems	CS-12	Interactive Computer Graphics
CS-67	Analysis and Design of Algorithm	CS-37	Theory of Computations
CS-68	.NET Framework and C# (Elective V)	CS-71	Artificial Intelligence (Using LISP)(ElectiveVII)
CS-69	Relational Data Base Management Systems (Elective VI)	CS-72	Advanced Java and Network Programming (Elective VIII)
PR-05	RDBMS (SQL Server/Oracle/My SQL) (Minor Project)	PR-07	Computer Graphics and Algorithms Analysis (Minor Project)
PR-06	Programming in .NET and C# (Minor Project)	PR-08	Advanced Java and Network Programming (Minor Project)
<b>Semester - V</b>		<b>Semester - VI</b>	
CS-17	Computer Based Optimization Techniques	CS-18	PROJECT WORK The Project period will be of 20 to 24 weeks duration. The Project will involve development of application/system software in industries, commercial or scientific environment. It will carry 400 marks.
CS-57	Software Project Management		
CS-58	Mobile Communication and Application Development (Elective IX)		
CS-59	Soft Computing Techniques using Neural Networks (Elective X)		
CS-19	Seminar Each student will be required to give seminar on selected topics. The seminars will carry 100 marks.		
PR-13	Mobile Application Development using Android (Minor project)		
PR-14	Programming for Basic MATLAB & Soft Computing Techniques		
<b>M.Sc.(Hons.)</b>			
<b>Semester - I</b>		<b>Semester - II</b>	
MCS-113	Software Engineering	MCS-407	Advance Java and Network Programming (Elective III)
MCS-110	Data Base Management System(Elective I)	MCS-210	Artificial Intelligence (Using LISP) (Elective IV)
MCS-114	Operating Systems	MCS-203	Interactive Computer Graphics
MCS-310	Analysis and Design of Algorithms (Elective II)	MCS-211	Data Mining and Data Warehousing
MCS-309	Practical based on MCS-310	MCS-205	Practical based on MCS-203
MCS-112	Practical based on MCS-110 and MCS-114	MCS-408	Practical based on MCS-407
<b>Semester - III</b>		<b>Semester - IV</b>	
MCS-306	Soft Computing Techniques using Neural Networks (Elective V)	MCS-304	Major Project Phase I (SRS, DFD, Database Design, Input/output Design)
MCS-302	Optimization Techniques	MCS-404	Major Project: Phase II (Coding, Testing & Deployment)
MCS-307	Software Project Management	MCS-409	Seminar (Based on MCS-304 and MCS-404)
MCS-115	.NET Framework and C# (Elective VI)		
MCS-308	Practical based on MCS-306 & MCS-210		
MCS-108	Practical based on MCS-115		

**THRUST AREAS:** Distributed Artificial Intelligence, Educational Technologies, Computer Graphics, Semantic Web Applications, Software Engineering, Open Source Software, Pattern Recognition, Image Processing and Computer Network/Security.

**PLACEMENT:** Campus placements of MCA and M.Sc. (Hons.) students have been very good for the last many years evidencing that the MCA/M.Sc. (Hons.) Curriculum, teaching infrastructure and its environment have been of great importance to the students and highly relevant to the Industry. Various reputed computer companies such as Infosys, Nagarro, and Emerson etc visit the department on a regular basis for placement and more than 80% students get placed in these companies, thereby helping in development of Human Resource in the field of ICT.

**ALUMNI RELATIONS:** A large number of our Alumni are holding key positions in industry, commerce and public life in India as well as abroad.

## DEPARTMENT OF ENVIRONMENT STUDIES

### ABOUT THE DEPARTMENT

In addition to teaching, research on current environmental issues of local, national and global importance remains the major thrust areas of the Department of Environment Studies. The department also undertakes consultancy on environmental issues through the University. The research conducted by the department has been credited with various national and international awards. The department also serves as the nucleus for co-ordination and implementation of compulsory course on Environment Education for Under Graduate classes of Panjab University and its affiliated colleges. The department has suitably developed the laboratory facilities with many sophisticated analytical equipments including UV-VIS Spectrophotometer, HPLC, (High Performance Liquid Chromatography) Flame Photometer, COD-BOD assembly for teaching, demonstration and research purposes. The department has a well-equipped Cyberary and a Library with latest books and reading material in the field of Environment. The classrooms are equipped with LED Projector for teaching and imparting instructions to the students. Students are encouraged to use these aids for their seminars / project presentations. The students are regularly exposed to various aspects of industry requiring environmental attention, along with educational trips to the related production units and research institutions.

### FACULTY

Designation	Name	Field of Research Specialization
Professor	Harminder Pal Singh	Biotic Environment
Assistant Professors	Madhuri Rishi ( <b>Chairperson</b> )	Earth & Atmospheric Science
	Suman Mor	Solid Waste Management
	Rajeev Kumar	Physical Environment

### COURSES OFFERED (SEMESTER SYSTEM)

Course	Seats	Duration	Eligibility*	Admission Criteria
M.Sc. in Environment Science	20+3 NRI	2 Years	Bachelor's Degree with minimum 50% marks in aggregate from any Science/ Engineering Stream or any other stream with Honours in Geography as one of the subjects from P.U. or any other recognised University	Based on P.U.CET(PG) Academics: 50% P.U.CET(PG):50%
Ph.D.	Subject to availability	3-6 Years	See M.Phil/ Ph.D Prospectus 2017	

\*5% Concession is admissible in eligibility marks to SC/ST/BC/PwD Candidates

**TITLE OF SYLLABI** (Detailed syllabi available at <http://puhd.ac.in/syllabus.php>)

### M.Sc.

Semester- I		Semester- II	
Paper-1	Geo-Environment and Meteorological Science	Paper-1	Biodiversity and Conservation
Paper-2	Ecological Principles	Paper-2	Environment Analysis: Techniques and Instrumentation
Paper-3	Environmental Chemistry & Toxicology	Paper-3	Environment Pollution
Paper-4	Solid Waste Management and Techniques	Paper-4	Environmental Impact Assessment and Auditing

Semester- III		Semester- IV	
Paper-1	Environmental Technology	Paper-1	Statistical Applications and Research Methodology
Paper-2	Regional and Global Environmental Issues	Paper-2	Environmental Biotechnology
Paper-3	Environment and Energy Management Environmental Science	Paper-3	Remote Sensing and GIS in
Paper-4	Industrial and Biomedical Waste Management	Paper-4	Training of at least 4 weeks, Project report, Presentation

**THRUST AREAS:** Environment Pollution Monitoring & Remediation; Assessment of Biodiversity with special reference to Invasive Plants; Bio-prospecting of Medical and Aromatic Plants; Evaluation of Natural Plant Products as Novel Agrochemicals; Eco-toxicological Impacts of Heavy metals; Rain Water Harvesting and Groundwater Pollution; Management of Solid Waste; Wastewater treatment.

**PLACEMENTS:** The pass outs from the department are well placed in various Educational / Research Institutions and Industrial Establishments.

**ALUMNI RELATIONS:** The department is in the process of nurturing an association of the alumni. The department envisages holding at least one Alumni meet every year so as to strengthen the linkage and bondage of the Alumni and the Department.

## **DEPARTMENT OF GEOLOGY AND CENTRE OF ADVANCED STUDY IN GEOLOGY (COSIST DEPARTMENT)**

### **ABOUT THE DEPARTMENT**

Established in 1958 by Late M.R. Sahni, the department was upgraded to the status of Centre of Advanced Study in 1963-64 in Himalayan Geology and Palaeontology. In 1986 it received COSIST Grants for improvement in infrastructure facilities in the Thrust areas of Geochemistry and Exploration Geology. In recent years of research and teaching besides Palaeontology, Petrology, Environmental Geology, and Hydrogeology were included as additional thrust areas. The Department has been allocated Rs. 90.00 lacs under the FIST Programme of the DST in 2003. In 2012 the department has received Rs.148.00 lacs under CAS (Phase-VII) scheme of the UGC. It is thus the oldest Advanced Centre in the Country under the Special Assistance Programme of the UGC. The Department has a large collection of fossils, rocks and minerals housed in its Museum. The department has 50 (Fifty) (registered/enrolled) research students on its rolls.

### **FACULTY**

<b>Designation</b>	<b>Name</b>	<b>Field of Research Specialization</b>
Professors Emeritus	Ashok Sahni	Vertebrate Palaeontology, Biomineralisation
	S.B. Bhatia	Micropalaeontology.
Professors	Naval Kishore	Hydrogeology, Petrology & Environmental Geology
	R.S. Loyal	Vertebrate Palaeontology & Biostratigraphy
	Naveen Chaudhri <b>(Chairperson)</b>	Igneous Petrology & Isotope Geochemistry
	Rajeev Patnaik	Vertebrate Palaeontology.
Assistant Professors	Ashu Khosla	Micropalaeontology & Vertebrate Palaeontology
	Parampreet Kaur	Petrology, Isotope Geochemistry & Geochronology
	Gurmeet Kaur	Petrology, Mineralogy & Hydrogeology
	B.P. Singh	Biostratigraphy & Palaeontology
	Seema Singh	Sedimentology & Palaeoclimatology
	Mahesh Thakur	Geophysics
	Debabrata Das	Groundwater Hydrology & Mining Hydrology

**COURSES OFFERED (SEMESTER SYSTEM)**

Course	Seats	Duration	Eligibility*	Admission Criteria
B.Sc. (Hons.)	30+4 NRI	3 Years	Passed 10+2 examination with at least 50% marks with English, Physics, Chemistry, Maths/ Biology	Based on P.U.CET (U.G) Academics: 25% P.U.CET(UG):75%
M.Sc. (Hons.)	30+4 NRI	2 Years	B.Sc. 3 years course with Geology as one of the subjects with 50% marks in B.Sc. & 50% marks in subject of Geology in B.Sc.	Ongoing Course
Ph.D.	23	3-6 Years	See M.Phil/Ph.D Prospectus 2017	
*5% Concession is admissible in eligibility marks to SC/ST/BC/PwD candidates				

**TITLES OF SYLLABI:** (Detailed syllabi available at <http://puchd.ac.in/syllabus.php>)

**B.Sc. (Hons.)**

Semester-I	Semester-II
<p><b>Theory Papers:</b> Core Course (C) Th.I: Earth System Science Th.II: Mineral Science <b>Practicals:</b> Core Course (C) Pr.I: Earth System Science Pr.II: Mineral Science <b>Theory Papers:</b> Generic Elective (GE) Th.I: Essentials of Geology Th.II: Minerals and Rocks <b>Practicals:</b> Generic Elective (GE) Pr.I: Essentials of Geology Pr.II: Minerals and Rocks</p>	<p><b>Theory Papers:</b> Core Course (C) Th.I: Elements of Geochemistry Th.II: Structural Geology <b>Practicals:</b> Core Course (C) Pr.I: Elements of Geochemistry Pr.II: Structural Geology <b>Theory Papers:</b> Generic Elective (GE) Th.I: Structural Geology Th.II: Fossils &amp; their Applications <b>Practicals:</b> Generic Elective (GE) Pr.I: Structural Geology Pr.II: Fossils &amp; their Applications</p>
Semester-III	Semester-IV
<p><b>Theory Papers:</b> Core Course (C) &amp; Skill Enhancement Course (SEC) Th.I: Igneous Petrology Th.II: Sedimentary Petrology Th.III: Palaeontology <b>Practicals:</b> Core Course (C) &amp; Skill Enhancement Course (SEC) Pr.I: Igneous Petrology Pr.II: Sedimentary Petrology Pr.III: Palaeontology <b>SEC: 1</b> Core Course (C) &amp; Skill Enhancement Course (SEC) Field Geology-1</p>	<p><b>Theory Papers:</b> Core Course (C) &amp; Skill Enhancement Course (SEC) Th.I: Metamorphic Petrology Th.II: Stratigraphic Principles &amp; Indian Stratigraphy Th.III: Hydrogeology <b>Practicals:</b> Core Course (C) &amp; Skill Enhancement Course (SEC) Pr.I: Metamorphic Petrology Pr.II: Stratigraphic Principles &amp; Indian Stratigraphy Pr.III: Hydrogeology <b>SEC: 2</b> Core Course (C) &amp; Skill Enhancement Course (SEC) Field Geology 2/3/4/5</p>
Semester-V	Semester-VI
<p>Th.I: Igneous Petrology Th.II: Metamorphic Petrology Th.III: Sedimentology Th.IV: Stratigraphy Pr.I: Igneous Petrology &amp; Metamorphic Petrology Pr.II: Sedimentology &amp; Stratigraphy FW: Geological Field Work</p>	<p>Th.I: Palaeontology Th.II: Economic Geology-I Th.III: Economic Geology-II Th.IV: Applied Geology (Hydrogeology, Mining Geology &amp; Field Geology) Pr.I: Palaeontology Pr.II: Economic Geology &amp; Applied Geology (Hydrogeology, Mining Geology &amp; Field Geology) FW: Geological Field Report &amp; Viva voce</p>

**B.Sc. (Hons.) III & IV Semester Generic Elective (GE) in Geology (Theory & Practical)**

<b>Semester III</b>		<b>Semester IV</b>	
Th.I: Stratigraphy Pr.I: Stratigraphy <b>M.Sc. (Hons.)</b>		Th.I: Hydrogeology Pr.I: Hydrogeology	
<b>Semester I</b>		<b>Semester- II</b>	
Th. I Igneous Petrology & Metamorphic Petrology Th.II Sedimentology & Tectonics Th.III Palaeontology & Stratigraphy Pr.I Igneous Petrology & Metamorphic Petrology P.II Sedimentology & Tectonics P.III Palaeontology & Stratigraphy FW Geological Field Work	Th.I Igneous Petrology & Metamorphic Petrology Th.II Sedimentology & Structural Geology Th.III Palaeontology & Stratigraphy Pr. I Igneous Petrology & Metamorphic Petrology Pr. II Sedimentology & Structural Geology Pr.III Palaeontology & Stratigraphy FW Geological Field Report Viva Voce		
<b>Semester III</b>		<b>Semester IV</b>	
Th.I Remote Sensing-GIS & Geomorphology- Climatology Th.II Petroleum Geology & Ore Geology Th.III Isotope Geology & Engineering Geology Pr.I Remote Sensing-GIS & Geomorphology- Climatology & Ore Geology Pr.II Petroleum Geology, Isotope Geology & Engineering Geology FW Project Oriented Geological Field Work	Th.I Petroleum Geochemistry & Exploration Geophysics Th.II Hydrogeology & Environmental Geology Pr.I Petroleum Geochemistry & Exploration Geophysics Pr. II Hydrogeology & Environmental Geology  FW Project Oriented Report:Lab.Work, FieldReport:Presentation & Viva Voce		

**THRUST AREAS:** Paleontology & Stratigraphy, Petrology, Hydrogeology & Environmental Geology.

**PLACEMENTS:** There is a Placement Cell in the department, which co-ordinates with the Central Placement Cell of the University and provides guidance and counselling to the students about the job opportunities in various Companies/ Institutes.

**ALUMNI RELATIONS:** Alumni Association of the department (PUGAA) often interacts and hold functions for the welfare and fulfilment of the aspirations of the alumni.

## **INSTITUTE OF FORENSIC SCIENCE & CRIMINOLOGY**

### **ABOUT THE INSTITUTE**

The Institute of Forensic Science & Criminology (IFSC) was established by Panjab University in 2009 for excellence in teaching and research in the field of Forensic Science & Criminology. Forensic Science & Criminology is a multi-disciplinary subject that has enormous applications in diverse areas like Law enforcement, Judiciary, Customs, and Defence etc. The Institute is unique that it provides training in all aspects related to Forensic Science & Criminology with specialization in Forensic Biology, Forensic Chemistry and Forensic Physics.

### **FACULTY**

<b>Designation</b>	<b>Name</b>	<b>Field of Research Specialization</b>
Professor	Rajat Sandhir <b>(Coordinator)</b>	Forensic Biology, Molecular Forensics
Assistant Professors	Shweta Sharma Vishal Sharma Jagdish Rai	Forensic Toxicology, Colloidal Chemistry Material Science, Finger Print Science, Questioned Documents DNA Sequencing, Protein Science

**COURSES OFFERED (SEMESTER SYSTEM)**

Course	Seats	Duration	Eligibility*	Admission Criteria
M.Sc	19+2NRI +1**	2 Years	B.Sc./B.Sc. (Hons.) Degree in Forensic Science or any other Graduation Degree with 3/4/5 Years duration with minimum 50% mrks in the faculty of Science/ Engineering/Medical/Dental and Pharmaceutical Sciences of Panjab University or any other recognized University.	Based on PU-CET(PG): Academics: 50% PU-CET(PG):50%
Ph.D.	Subject to availability	3-6 Years	See M.Phil/Ph.D Prospectus-2017	

\*5% Concession is admissible in eligibility marks to SC/ST/BC/PwD Candidates  
\*\* Seats reserved for in-service candidates from Government Organization. In case of non-availability of in-service candidate, the seat will be converted into General Category

**TITLES OF SYLLABI :** (Detailed syllabus available at <http://puchd.ac.in/syllabus.php> )

**M.Sc**

Semester-I		Semester-II	
(i)	General Forensic and Fingerprint Science	(i)	Molecular Biology and Biochemistry
(ii)	Forensic Biology	(ii)	Forensic Chemistry
(iii)	Instrumentation	(iii)	Forensic Physics
(iv)	Criminology, Criminal Law and Forensic Psychology	(iv)	Quality Management and Statistics
(v)	Crime file/Scrap File		
Semester-III		Semester-IV	
(i)	Forensic Toxicology and Drugs of Abuse	(i)	Questioned Documents
(ii)	Ballistics	(ii)	Computer Forensics
(iii)	Forensic Anthropology, Osteology and Odontology	(iii)	Advanced DNA Methods (Specialization in Forensic Biological Sciences)
(iv)	Cytogenetics	(iv)	Forensic Explosives (Specialization in Forensic Chemical Sciences)
		(iv)	Forensic Audio-Video Analysis (Specialization in Forensic Physical Sciences)
		(v)	Dissertation
		(vi)	Seminar/Journal Club

**THRUST AREAS:** Fingerprint detection using nanoparticles, Analytical techniques for Questioned Document examination, Forensic Toxicology, Extraction of questioned analyte, Drug-drug interactions, Developing drug sensors, Forensic Anthropology and Forensic Biology.

**PLACEMENTS:** The placement cell of the department endeavors to offer placement services to the students. The students are informed of various opportunities. The students are placed mainly in the various government organizations.

**ALUMNI RELATIONS:** The department remains in touch with old students by inviting them in get-togethers / Annual Function where they share their experience.

**DEPARTMENT OF MATHEMATICS  
(CENTRE FOR ADVANCED STUDY IN MATHEMATICS)**

**ABOUT THE DEPARTMENT**

The Department was established in 1952 at Hoshiarpur and set up at Chandigarh in 1958. It is one of the best departments of Mathematics of the Indian Universities. It has been recognized as Centre for Advanced Study in Mathematics since 1963 by the U.G.C. The National Board for Higher Mathematics has granted the status of Regional Library to the Library of the

Department and support the consortium for the online access to Math. Sci. Net, for which the department is the leading partner.

### FACULTY

Designation	Name	Field of Research Specialization
Professor Emeritus	R.P.Bambah	Number Theory, Geometry of Numbers, Discrete Geometry
	R.J.Hans Gill	Number Theory, Geometry of Numbers, Discrete Geometry
Emeritus Fellow UGC Professor (Re-employed)	I.B.S.Passi	Algebra
	A.K. Agarwal	Number Theory
	Madhu Raka	Number Theory, Geometry of Numbers Algebraic Coding Theory
Honorary Professor Professors	Rajesh Kochhar	Applied Mathematics
	A.K.Bhandari	Algebra (Group Rings)
	S.K.Tomar	Applied Mathematics, Continuum Mechanics
	Savita Bhatnagar (Chairperson)	Analysis
	Renu Bajaj	Applied Mathematics, Fluid Dynamics
	Vanita Verma	Operational Research Optimization
Associate Professor (Re-employed) Associate Professors	Gurmeet Kaur Bakshi	Algebra, Algebraic Coding Theory
	Dinesh K. Khurana	Algebra, Ring Theory
	D.B. Rishi	Number Theory, Topology
	Vikas Bist	Algebra & Analysis, Linear Algebra
Assistant Professors	Poonam Sehgal	Algebra, Number Theory & Complex Analysis
	Kapil K. Sharma (On-leave)	Numerical Analysis
	Suman Bala	Algebra
	Manisha Sharma	Operational Research
	Anjana Khurana	Algebra
	Sarita Pippal	Computational Fluid Dynamics
	Surinder Pal Singh	Real Analysis
Assistant Professors (UGC)	Aarti Khurana	Continuum Mechanics
	Dilbag Singh	Applied Mathematics, Continuum Mechanics
	Gagandeep Singh	Queuing Theory, Stochastic Modeling, Applied Probability

### COURSES OFFERED (SEMESTER SYSTEM)

Course	Seats	Duration	Eligibility*	Admission Criteria
B.Sc.(Hons.)	40+6 NRI	3 Years	50% marks in 10+2 examination from a recognized Board/CBSE with Mathematics as one of the subjects.	Based on P.U.CET-(UG)** Academics: 25% P.U.CET(UG):75%
M.Sc (Hons.)	(i) 40+5 NRI	2 Years	B.Sc. (Hons.) in Mathematics or B.Sc. (Hons.) in Maths & Computing from the Department of Mathematics, P.U., Chandigarh	Ongoing Class
	(ii)30+5 NRI			
			B.A./B.Sc. (General) with 50% marks in Mathematics as a major subject OR B.A./B.Sc. with Hons. 50% marks in Mathematics of P.U. or any other University recognized by P.U. as equivalent thereto.	Based on P.U.CET(PG) Academics: 40% P.U.CET(PG):60%
Ph.D.	Subject to availability	3-6 Years	See M.Phil/Ph.D Prospectus 2017	

\*5% Concession is admissible in eligibility marks to SC/ST/BC/PwD Candidates  
 \*\* I.N.M.O. Awardees can join B.Sc.(Hons.) Department of Mathematics, without appearing in the P.U.CET(UG) Entrance Test



**TITLES OF SYLLABI** (Detailed syllabus available at [www.puchd.ac.in/syllabus.php](http://www.puchd.ac.in/syllabus.php))**B.Sc. (Hons.) First Year Mathematics (Under CBCS)**

Paper	Semester- I	Paper	Semester- II
C1	MAT-C1: Calculus	C3	MAT-C3: Real Analysis
C2	MAT-C2: Algebra	C4	MAT-C4: Differential Equations
MAT-AECC1:	English/ MIL	MAT-AECC2:	English/ MIL
AECC1	Communications/ Environment Science	AECC2	Communications/ Environment Science
GE1*	MAT-GE1	GE2*	MAT-GE3
	MAT- GE2		MAT-GE 4
<b>Semester-III</b>		<b>Semester-IV</b>	
MAT-C5	Theory of Real Functions	MAT-C8	Numerical Methods
MAT-C6	Group Theory I	MAT-C9	Riemann Integration and series of Functions
MAT-C7	PDE and system of ODE	MAT-C10	Ring Theory and Linear Algebra I
SEC1		SEC2	
GE3*	MAT-GE5	GE4*	MAT-GE6
<b>Semester-V</b>		<b>Semester-VI</b>	
Paper-1	Math 501S: Rings and Modules	Paper-1	Math 521S: Advanced Linear Algebra
Paper-2	Math502S: Calculus of Several Variables and Improper Integrals	Paper-2	Math522S: Lebesgue Integration and Fourier series
Paper-3	Math 503S: Some Special Functions and Integral Transforms	Paper-3	Math 523S: Partial Differential Equations
Paper-4	Math 504S: Number Theory-I	Paper-4	Math 524S: Number Theory-II
Paper-5	CA505S: Discrete Mathematics and Graph Theory	Paper-5	CA525S: Numerical Analysis For Maths and Computing

C: Core Courses; GE: General Elective; AECC: Ability Enhancement Compulsory Courses;

SEC: Skill Enhancement Courses; DSE: Discipline Specific Elective

\*GE subjects are to be selected by the students from the pool of GE Subjects offered by various Departments of the University.

**M.Sc (Hons.)**

Semester- I	Semester- II
Math-701S Topology OR	Math 721S Functional Analysis OR
Math-702S Real Analysis	Math 722S Measure Theory
Math-703S Topics in Algebra-I OR	Math723S Topics in Algebra-II OR
Math704S Groups and Rings	Math-724S Modules & Fields
Math-705S Linear Programming OR	Math-725S Non-Linear Programming OR
Math-706S Number Theory-I	Math-726S Number Theory-II
Math-707 Complex Analysis-I	Math-727S Complex Analysis-I
Math-708S Classical Mechanics-I	Math-728S Classical Mechanics-II
The above mentioned courses will be offered to the students depending upon their background	
<b>Semester-III (Opt any five)</b>	<b>Semester-IV (Opt any five)</b>
Math-705S Linear Programming	Math-725S Non-Linear Programming
Math-751S Topology	Math-770S Functional Analysis

Math-752S	Linear Algebra and Commutative Algebra-I	Math-769S	Commutative Algebra-II
Math-761S	Computational Techniques-I	Math-781S	Computational Techniques-II
Math-771S	Algebraic Number Theory-I	Math-791S	Algebraic Number Theory-II
Math-772S	Topics in Number Theory-I	Math-792S	Topics in Number Theory-II
Math-773S	Fluid Mechanics-I	Math-793S	Fluid Mechanics-II
Math-774S	Algebraic Coding Theory-I	Math-794S	Algebraic Coding Theory-II
Math-775S	Non-Commutative Ring Theory	Math-795S	Representation Theory of Finite Groups
Math-776S	Partial Differential Equations-I	Math-796S	Partial Differential Equations-II
Math-777S	Continuum Mechanics-I	Math-797S	Continuum Mechanics-II
Math-778S	Numerical Methods for Differential Equations-1	Math-798S	Numerical Methods for Differential Equations-1
Math-779S	Network Analysis	Math-799S	Numerical Optimization
Math-780S	Measure & Integration-I	Math-800S	Measure and Integration-II

**THRUST AREAS:** Algebra, Continuum Mechanics, Number Theory, Numerical Analysis

**PLACEMENTS:** Our students are placed in teaching jobs in Government/private educational institutions.

**ALUMNI RELATIONS:** We invite our distinguished alumni at every academic function in the department. They deliver motivating lectures to the students/faculty.

## DEPARTMENT OF MICROBIOLOGY

### ABOUT THE DEPARTMENT

The department is one of the oldest and pioneer department of Microbiology in the country. It was established in 1964. The department has made a remarkable progress in teaching and research ever since its establishment and has been recognized for research Nationally and Internationally. It has been implementing various schemes and R & D Projects by various govt. agencies like department of Biotechnology (DBT), Department of Science and Technology (DST-PURSE, University Grants Commission), other Funding Agencies including Council of Scientific and Industrial Research (CSIR), Indian Council for Medical Research (ICMR), Chandigarh Council of Science and Technology (CCST) etc. The Department has excelled in Medical and Industrial Research and owes the faculty with expertise in almost all the branches of Microbiology like Immunology, Diagnostic Reproductive Biology, Phage Therapy, Microbial Biosensors, Quorum Sensing, Molecular Biology, Food Microbiology, Fermentation Technology, Microbial Diversity and Metabolites, Environmental Microbiology, Enzymes and their Applications etc. The graduates from this department are already employed in various National/International academic, premier research and industrial organizations and International Universities. The department has good modern teaching and research infrastructure. Besides intradepartmental collaborations, the department does have collaborations with PGIMER (CHD), CSIR-IMTECH (CHD), CSIR-IHBT (Palampur). The faculty of the department has been conferred awards/recognition at various platforms nationally. The vision of the department is to explore Microbial diversity in Health, Industry and Environment with the mission to use Microbiology in the Service of Society.

In 2014, the department shifted to new building in South Campus of the university situated in Sector-25, Chandigarh. The new building has the world class infrastructure and well established departmental Instrumentation Facility. The major equipment available in the department include UV-Visible Spectrophotometers, Ultra Centrifuge, Refrigerated Centrifuge, Ultra Deep Freezer, Orbital Shakers, Water Bath Shakers, Protein Purification System with fraction collector, electrophoresis equipment, BOD Incubators, Gas chromatograph, laboratory fermenter, Fluorescent Microscope, Sonicator, Trans-illuminator, CO2 incubators, Micro Centrifuge, Cold Room, Real Time PCR Machine, Electro-evaporator, ELISA Reader, Lyophilizer, Milipore Water Purification System etc.

The Department of Biotechnology, Govt. of India, New Delhi has selected this department for assistance for enhancement of research and teaching in the field of Microbial Biotechnology. UGC has selected the department for Special Assistance Programme (SAP).

**FACULTY**

<b>Designation</b>	<b>Name</b>	<b>Field of Research Specialization</b>
Professors Emeritus	K. G. Gupta	Applied Microbiology
Professors	J.K.Gupta	Industrial Microbiology
	Sanjay Chhiber	Medical Microbiology
	Prince Sharma	Molecular Microbiology
	Vijay Prabha	Medical Microbiology
	Praveen Rishi	Medical Molecular Microbiology
Assistant Professors	Sanjeev Soni <b>(Chairperson)</b>	Food and Fermentation Technology
	Kusum Harjai	Applied and Medical Microbiology & Immunology
	Geeta Shukla	Medical Microbiology
	Deepak Kumar Rahi	Industrial Microbiology
	Naveen Gupta	Industrial Molecular Microbiology
	Seema Kumari	Virology
	Khem Raj	Medical Microbiology

**COURSES OFFERED (SEMESTER SYSTEM)**

<b>Course</b>	<b>Seats</b>	<b>Duration</b>	<b>Eligibility*</b>	<b>Admission Criteria</b>
B. Sc. (Hons.)	30+4 (NRI)	3 Years	50% marks in 10+2 with English, Physics, Chemistry, Maths, Biology, Biotechnology	Based on P.U.CET (UG) Academics : 25% PU-CET(UG):75%
M.Sc. (Hons.)	30	2 Years	Ongoing student must have cleared B.Sc. (Hons.)	Ongoing Class
Ph.D	Subject to availability	3-6 Years	See M.Phil/Ph.D prospectus 2017	

\*5% Concession is admissible in eligibility marks to SC/ST/BC/PwD Candidates

**TITLES OF SYLLABI :** (Detailed syllabus available at [www.puchd.ac.in/syllabus.php](http://www.puchd.ac.in/syllabus.php) )

**B.Sc (Hons.)**

<b>Semester- I</b>		<b>Semester -II</b>	
MIC-C1	Biomolecules	MIC-C3	General Microbiology
MIC -C2	Cell Biology	MIC-C4	Molecular Biology
MIC-AECC1	English	MIC-AECC2	Environmental Science
GE1*	General Bacteriology	GE3*	Environmental Microbiology
GE2*	Industrial Microbiology	GE4*	Food and Dairy Microbiology

C: Core Courses; GE: Genetic Elective Courses offered by the Department for students from other departments;  
AECC: Ability Enhancement Compulsory Courses. Four core courses in the first year will run simultaneously in both semesters under PU-IMBSER

<b>Semester -III</b>		<b>Semester- IV</b>	
MIC-C5	General Bacteriology	MIC-C8	Environmental Microbiology
MIC-C6	Industrial Microbiology	MIC-C9	Medical Microbiology
MIC-C7	Microbial Physiology and Metabolism	MIC-C10	Food and Dairy Microbiology
SEC1*	Microbial Quality Control in Food and Pharmaceutical Industries	SEC2	Microbial Diagnosis in Health Clinics
GE5*	Microbial and Molecular Genetics	GE6*	Virology

SEC: Skill Enhancement Courses

Semester -V		Semester- VI	
BMI 3501	Medical Bacteriology – I	BMI 3601	Medical Bacteriology – II
BMI 3502	Microbial & Molecular Genetics	BMI 3602	Virology
BMI 3503	Food Microbiology	BMI 3603	Microbial Physiology & Metabolism
BMI 3504	Immunochemistry	BMI 3604	Immunopathology
<b>M.Sc (Hons.)</b>			
Semester -I		Semester -II	
MMI 4101	Advances in Microbial Ecology	MMI 4201	Fermentation Technology
MMI 4102	Pathogenesis of Infectious diseases	MMI 4202	Advances in Molecular Biology & Biotechnology
MMI 4103	Newer approaches in diagnostic Microbiology	MMI 4203	Advances in Immunoprophylaxis & Immunotherapy of infections
Semester-III		Semester-IV	
MMI 5301	Fundamentals of Computer Programming and Applications	MMI 5401	Thesis
MMI 5302	Advanced Topics in Microbiology –I (Seminar)	MMI 5402	Viva Voce
MMI 5303	Advanced Topics in Microbiology –II (Paper)		
MMI5304	Project Training Report & Presentation		

**THRUST AREAS :** Medical Microbiology, Agricultural Microbiology, Food Microbiology, Industrial Microbiology, Immunology, Environmental Microbiology, Microbial Physiology and Biochemistry and Genetic Engineering and Biotechnology.

**PLACEMENTS :** Though there is 100% off campus placement of the students of Microbiology after M.Sc./Ph.D, efforts are being made to activate the process of on campus placement through Central Placement Cell, Panjab University, Chandigarh.

**ALUMNI RELATIONS :** To promote the alumni relations, the committee has recently been constituted to activate the process.

## DEPARTMENT-CUM-NATIONAL CENTRE FOR HUMAN GENOME STUDIES AND RESEARCH

### ABOUT THE CENTRE

National Centre for Human Genome Studies and Research is relatively new education centre. The goal of the Centre is to provide the most advanced and comprehensive education possible related to human genome at the post graduate level. Research activities are directed towards our understanding of human biology and disease and to develop solutions to societal health problems. Mission is to establish specific scientific programmes that will be available to the public, to improve human health and well-being through education and research.

### FACULTY

Designation	Name	Field of Research Specialization
Professor (Re-employed)	Tapas Mukhopadhyay	Molecular Biology and Cancer Gene Therapy
Associate Professor	Ramandeep Kaur	Molecular and Cancer Biology
Assistant Professors	Ranvir Singh <b>(Chairperson)</b> Shashi Chaudhary	Protein Crystallography  Genetics & Molecular Biology of Human Diseases

**COURSES OFFERED (SEMESTER SYSTEM)**

Course	Seats	Duration	Eligibility*	Admission Criteria
M.Sc. Human Genomics	15+2 NRI	2 Years	B.Sc. (Pass or Honours) under 10+2+3 pattern of examination with atleast 55% marks in Physical, Chemical, Biological, Pharmaceutical Science or in medicine from any University /Institute recognized by P.U.	Based on P.U.CET(PG) Academics: 50% P.U.CET(PG):50%
Ph.D.	Subject to availability	3-6 Years	See M.Phil/Ph.D. Prospectus 2017	

\*5% Concession is admissible in eligibility marks to SC/ST/BC/PwD candidates

**TITLES OF SYLLABI** (Detailed syllabus available at <http://puchd.ac.in/syllabus.php>) (Subject to approval)

**M.Sc.**

Semester- I		Semester- II	
MHG 101	Foundation Course	MHG-201	Biomolecular structure and Bioinformatics-I
MHG 102	Cell Biology	MHG-202	Applied Genetics
MHG-103	Genetics	MHG-203	Human Molecular Genetics-I
MHG-104	Analytical techniques	MHG-204	Genetic Engineering and Molecular Biology techniques
MHG-105	Practical based on 101 & 102	MHG-205	Practical based on 201 & 202
MHG-106	Practical based on 103 & 104	MHG-206	Practical based on 203 & 204
Semester- III		Semester- IV	
MHG-301	Biomolecular Structure and Bioinformatics – II	MHG-401	Advanced Course in Genomics
MHG-302	Gene Expression and Epigenetics	MHG-402	Project Work and Presentation
MHG-303	Human Molecular Genetics	MHG-403	Clinical round and Viva
MHG-304	Genomics and Proteomics	MHG-404	Educational Tour & Journal Club
MHG-305	Practical based on 301 & 302		
MHG-306	Practical based on 303 & 304		

**THRUST AREAS:** Molecular Biology, Functional Genomics and Proteomics

**PLACEMENTS:** Most of the students pursue Ph.D. programme after completion of their course while others opt for private sector jobs in clinical research organizations like Dr REDDYS (Hyderabad), Quantum Solution etc.

**ALUMNI RELATIONS:** Departmental alumni keep visiting and interacting with students and provide their valuable input from their experience, time to time.

**DEPARTMENT OF PHYSICS****ABOUT THE DEPARTMENT**

The Department of Physics was established at Lahore in 1934, moved to Delhi for some time and then to Govt. College, Hoshiarpur (Pb.) after partition. Subsequently the Department was shifted to Chandigarh in 1958.

The Department received grants under the UGC COSIP (College Science Improvement Programme) from 1977-83, SAP (Special Assistance Programme) from 1980-88 and COSIST (Committee of Strengthening of infrastructure in Science and Technology) from 1984-91. Since 1988, it has been accorded the status of a Centre of Advanced Study (CAS) by UGC with three major thrust areas: Particle Physics, Nuclear Physics and Solid State Physics - a unique achievement. At present the Department has the strength of 23 faculty members, 3 Re-employed Faculty, 3 Emeritus Professors, 1 Emeritus Scientist, 8 Project Scientists, 1 UGC Professor, 38 Assisting staff and 2 daily wages staff. There are 10 Postdoctoral fellows under various schemes including 3 DST Inspire faculty, 1 Ramanujam Fellow, and 2 DST Kothari PDF. There are about 120

research students and 400 B.Sc. (Hons.) Physics, M.Sc. (Hons.) Physics, B.Sc. (Hons.) Physics (Specialization in Electronics) and M.Sc. (Hons.) Physics & Electronics students on the rolls of the Department. About 150 B.Sc. (Hons.) students of other departments study Physics subjects as General Elective Courses.

The faculty members have been honoured with Meghnad Saha Award, Goyal Prize (Kurukshetra University), Sir C.V. Raman Award, Hari Om Trust Award, Mercator Professorship, Homi Bhaba Fellowship, Emeritus Scientistships, Ramanna Fellowship, Raman Fellowship, S.N. Satya Murthi Young Scientist Award and DAE Young Scientist Award. They have been elected for Indian Academy of Sciences fellowship, Joliot Curie fellowship, Alexander Von Humboldt fellowships, DFG (German Research Society) Fellowship, BMFT (Ministry of Research and Technology of Germany like DST) fellows, UNESCO/IAEA Fellowship, WE-Heraeus Fellowship, Heinrich Hertz Foundation fellowship, Fulbright Fellowship, Commonwealth fellowship, Third World Academy of Sciences fellowships and UGC National Lecturer Fellowship awards. The Department had the honour of having Professor Yash Pal, former UGC Chairman and Prof. Arun Grover, Present Vice-Chancellor, Panjab University, as its faculty members. Senior faculty members - Prof. K.N. Pathak served as Vice-Chancellor, Panjab University, Chandigarh, during 2000-2006, and Prof. S. Parkash served as the Vice-Chancellor of Jivaji University Gwalior, from 2001-2006. Prof. Tankeshwar Kumar is currently serving as Vice-Chancellor of Guru Jambheshwar University of Science and Technology, Hisar.

The Department is having research collaborations with institutions like, Royal Military College of Canada, Canada; University of Notre Dame, USA; Fermilab, USA; CERN Geneva; Bonn University Germany; University of Bayreuth, Wuerzburg, Munich and Berlin in Germany, Chemistry Department, City College of New York (CUNY), New York; KEK Japan; ICTP, Trieste; Univ. of Illinois, USA; BNL, USA; Max. Planck Institute, Germany; Univ. of Leipzig, Germany; SUBATECH, Nantes, France; Instt. for Theoretische Physics, Tubingen, Germany; Instt of Nuclear Studies, Warsaw University, Poland; Univ. of Milano, Italy; J.L. Univ., Germany; J.W. Goethe Univ., Frankfurt, Germany; Instt. of Nucl. Physics, Strasbourg, France; University of Surrey, Gilford, U.K.; University of Hawaii, Cincinnati; Virginia Tech., Princeton University, University of Antwerp, Belgium, IINR Dubna Russia, IUC, Kolkata; VECC, Kolkata; TIFR, Mumbai; IAUC., New Delhi; IIT, Kanpur; Delhi University, Delhi; Mumbai University, Mumbai; IIT, Chennai; I.O.P. Bhubaneshwar; H.P. University, Shimla; T.B.R.L., P.G.I.M.E.R., C.S.I.O., Chandigarh. The department has MOU with IUAC, New Delhi for joint faculty appointment and to various academic exchange programmes for Accelerator based research.

UGC has sanctioned 3 crores under CAS-V Phase (2015-2019) grant under improvement of Infrastructure facilities of the Physics Department. Funds of Rs. 3.5 crores for infrastructure development have been sanctioned by the Department of Science and Technology under FIST programme to upgrade teaching and research facilities. The Department of Science & Technology has given technical approval for funding the proposal for establishing Panjab University Accelerator Science Centre (6 MV Tandem Accelerator) at P.U. Campus. The Department has been recognized by DST to host a Centre for High energy Physics Detectors and Instrumentation (CHEPDI) for the R&D of future detectors and for human resource generation.

**Research Facilities :** Facilities exist in the Department for research in Nuclear Physics, High Energy Physics, Photon-Atom Interaction Studies, Solid State/Condensed Matter Physics, Laser Spectroscopy, Radiometric Dating and Theoretical Physics, leading to the Ph.D. degree for which at least three years of research work is required after the M.Sc. degree. The Centre for Medical Physics and the Centre for Nano Science & Nano Technology are closely associated with the Department of Physics. Moreover, the Department has started new M.Sc. courses in Medical Physics and Nuclear Medicine jointly with Department of Biophysics, PU, and Departments of Nuclear Medicine and Radiation Therapy, PGIMER, Chandigarh from the academic session 2007-08.

**Major facilities available in the Department:** (i) Cyclotron, (ii) High Energy Physics (Data Analysis and Detector fabrication Labs.) for studies connected with Collider Physics at CERN and Fermilab, Neutrino Physics at INO and Fermilab, (iii) Facilities for PAC/PAD studies of Hyperfine Interactions (iv) Semi-conductor laboratory, fabrication of thin films, (v) Raman Spectrometer, (vi) Several Nuclear Spectrometers incorporating detectors like HPGe, Si(Li), NaI(Tl), BaF<sub>2</sub>, and LaBr<sub>3</sub> associated with modern electronics, (vii) Data Analysis labs. for Ultra relativistic heavy Ions experiments done at CERN, (viii) High Performance Computational Facility for theoretical studies for modeling physical problems including simulations, (ix) Energy dispersive X-ray fluorescence spectrometers using radioactive exciter sources and X-ray tube for material analysis, and (x) XRD. An 11 inch Telescope has been installed in the Department as a part of Teaching and Public awareness Programmes in Astrophysics. The Department houses Indian Association of Physics Teachers (IAPT) office and actively leads in IAPT, Indian Physics Association activities.

#### FACULTY

Designation	Name	Field of Research Specialization
Professors Emeritus	K.N. Pathak	Condensed Matter Physics (Theory)
	Nirmal Singh	Nuclear Physics (Experimental)
	Raj K. Gupta	Nuclear Physics (Theory)

Professors (Re-employed)	A.K. Bhati	Nuclear Condensed Matter Physics, Rel. Heavy ion Collisions (Experimental)
Professors	Manjit Kaur	High Energy Physics (Experimental)
	V.P. Singh	Mass Spectrometry & Geochronology
	Devinder Mehta	Nuclear Physics (Experimental)
	<b>(Chairperson)</b>	
	Navdeep Goyal	Condensed Matter Physics (Experimental)
	Rajeev K. Puri	Nuclear Physics (Theory)
	G.S.S.Saini	At. Mol. Spectroscopy (Experimental)
	C. Nagaraja Kumar	Theoretical Physics
	S.K. Tripathi	Condensed Matter Physics (Experimental)
	Sandeep Sahijpal	Astrophysics & Planetary Sciences (Theory)
Ranjan Kumar	Condensed Matter Physics (Theory)	
B.R. Behera	Nuclear Physics (Experimental)	
Vipin Bhatnagar	High Energy Physics (Experimental)	
Associate Professors	K.S. Bindra	Physics Education
	Ashok Kumar	Nuclear Physics (Experimental)
	Sunita Srivastava	Theoretical Physics
Assistant Professors	J.S. Shahi	Nuclear Physics (Experimental)
	Kuldeep Kumar	High Energy Physics (Theory)
	Bimal Rai	Geochronology (Experimental)
	Manish Dev Sharma	Electronics & Communication (Experimental)
	Neeru Chaudhary	Instrumentation (Experimental)
	Samarjeet Sihotra	Nuclear Physics (Experimental)
	Rajesh Kumar	Condensed Matter Physics (Experimental)
	Lokesh Kumar	High Energy Physics (Experimental)
	Sakshi Gautam	Nuclear Physics (Theory)
	Gulsheen Ahuja	High Energy Physics (Theory)
Emeritus Scientists	Suman Bala Beri (UGC)	High Energy Physics (Experimental)
Project Scientists	Satya Prakash (UGC)	Condensed Matter Physics (Theory)
	Gulzar Singh	Nuclear Physics (Experimental)
	M.M. Aggarwal	High Energy Physics (Experimental)
	M.M. Gupta	High Energy Physics (Theory)
	V.K. Jindal	Condensed Matter Physics (Theory)
	Keya Dharamvir	Condensed Matter Physics (Theory)
	K.P. Singh	Nuclear Physics (Experimental)
	J.B.Singh	High Energy Physics (Experimental)

**COURSES OFFERED (SEMESTER SYSTEM)**

Course	Seats	Duration	Eligibility *	Criteria
B.Sc. (Hons.)	40+6 NRI	3 Years	10+2 Non-Medical/ Medical with 50% marks	Based on PU-CET(UG) Academics :25% PU-CET(UG):75%
B.Sc. (Hons.) (Specialization in Electronics)	20+3 NRI	3 Years	10+2 examination (Non-Medical/Medical) with 50% marks from recognized Board /CBSE	Based on PU-CET(UG) Academics :25% PU-CET(UG):75%
M.Sc. (Hons.) Physics	40+6 NRI	2 Years	B.Sc. (Pass or Hons.) examination of P.U. or any other exam. recognized as equivalent thereto with 50% marks with Physics and Mathematics as elective subjects	Based on PU-CET(PG) Academics: 40% PU-CET(PG): 60% In addition, all students after passing B.Sc. (Hons.) in Physics of P.U. will continue for respective M.Sc. (Hons.) Physics.

M.Sc. (Hons.) Physics & Electronics	20+3 NRI	2 years	B.Sc. (Pass or Hons.) examination with Physics and Mathematics as elective subjects, or B.Sc. (Electronics), or B.Tech /B.E. (Electronics/ Electrical/ Mechanical or equivalent) with 50% marks of P.U. or any other exam. recognized as equivalent thereto.	Based on P.U.CET(PG) Academics: 40% P.U-CET(PG): 60% In addition, all students after passing B.Sc. (Hons.) in Physics & Electronics of P.U. will continue for respective M.Sc. (Hons.) Physics & Electronics.
Ph.D.	Subject to availability	3-6 years	See M.Phil/Ph.D. Prospectus 2017	
*5% Concession is admissible in eligibility marks to SC/ST/BC/PwD candidates				

**TITLES OF SYLLABI** (Detailed syllabi is available at <http://physics.puchd.ac.in/courses.php> ).

### B.Sc. (Hons.) Physics

Semester- I		Semester- II	
Paper-1	Mathematical Physics – I	Paper-1	Electricity and Magnetism
Paper-2	Mechanics	Paper-2	Waves and Optics
Paper-3	English/Environmental Science	Paper-3	English/Environmental Science
Paper-4	General Elective Courses (Any two): Mathematics, Chemistry/Biochemistry /Biophysics, Geology, Statistics, Economics.	Paper-4	General Elective Courses (Any two): Mathematics, Chemistry/Biochemistry/ Biophysics, Geology, Statistics, Economics.
Semester- III		Semester- IV	
Paper-1	Mathematical Physics - II	Paper-1	Mathematical Physics - III
Paper-2	Thermal Physics	Paper-2	Elements of Modern Physics
Paper-3	Digital Systems and Applications	Paper-3	Analog Systems and Applications
Paper-4	* Skill Enhancement Courses (Any one): Physics Enhancement Skills, Computational Physics Skills, Electrical Circuits and Network Skills, Basic Instrumentation Skills, Renewable Energy and Energy Harvesting.	Paper-4	* Skill Enhancement Courses (any one): Physics Enhancement Skills, Computational Physics Skills, Electrical Circuits and Network Skills, Basic Instrumentation Skills, Renewable Energy and Energy Harvesting.
Paper-5	General Elective Courses (Any one): Mathematics, Chemistry/Biochemistry/ Biophysics, Geology, Statistics, Economics.	Paper-5	General Elective Courses (any one): Mathematics, Chemistry/Biochemistry/ Biophysics, Geology, Statistics, Economics.
Semester- V		Semester- VI	
Paper-1	Quantum Mechanics and Applications	Paper-1	Electromagnetic Theory
Paper-2	Solid State Physics	Paper-2	Statistical Mechanics
Paper-3&4	Discipline Specific Elective Courses (Any two): Experimental Techniques in Physics, Physics of Resonance Techniques, Classical Dynamics, Medical Physics, Nuclear and Particle Physics, Science of Materials and Nano Systems, Astronomy and Astrophysics, Dissertation.	Paper-3&4	Discipline Specific Elective Courses (Any two): Experimental Techniques in Physics, Physics of Resonance Techniques, Classical Dynamics, Medical Physics, Nuclear and Particle Physics, Science of Materials and Nano Systems, Astronomy and Astrophysics, Dissertation.
B.Sc. (Hons) Specialization in fElectronics			
Semester- II		Semester- II	
Paper-1	Mathematical Physics – I	Paper-1	Electricity and Magnetism
Paper-2	Mechanics	Paper-2	Waves and Optics



Paper-3	English/Environmental Science	Paper-3	English/Environmental Science
Paper-4	General Elective Courses (Any two): Mathematics, Chemistry/Biochemistry/ Biophysics, Geology, Statistics, Economics	Paper-4	General Elective Courses (Any two): Mathematics, Chemistry/Biochemistry/ Biophysics, Geology, Statistics, Economics
<b>Semester- III</b>		<b>Semester-IV</b>	
Paper-1	Mathematical Physics - II	Paper-1	Mathematical Physics - III
Paper-2	Thermal Physics	Paper-2	Elements of Modern Physics
Paper-3	Digital Systems and Applications	Paper-3	Analog Systems and Applications
Paper-4	* Skill Enhancement Courses (Any one): Physics Enhancement Skills, Computational Physics Skills, Electrical Circuits and Network Skills, Basic Instrumentation Skills, Renewable Energy and Energy Harvesting	Paper-4	* Skill Enhancement Courses (Any one): Physics Enhancement Skills, Computational Physics Skills, Electrical Circuits and Network Skills, Basic Instrumentation Skills, Renewable Energy and Energy Harvesting
Paper-5	General Elective Courses (any one):Mathematics, Chemistry/Biochemistry/Biophysics, Geology, Statistics, Economics	Paper-5	General Elective Courses(any one): Mathematics, Chemistry/Biochemistry Chemistry/ Biochemistry/ Biophysics, Geology, Statistics, Economics
<b>Semester-V</b>		<b>Semester- VI</b>	
Paper-1	Quantum Mechanics and Applications	Paper-1	Electromagnetic Theory
Paper-2	Solid State Physics	Paper-2	Statistical Mechanics
Paper-3&4	Discipline Specific Elective Courses (Any two): Experimental Techniques in Physics, Semiconductor Devices and Circuit Analysis, Microprocessor and Microcontroller, Medical Physics, Nuclear and Particle Physics, Communication Systems, Digital Signal Processing, Dissertation	Paper-3&4	Discipline Specific Elective Courses (Any two) Experimental Techniques in Physics, Semiconductor Devices and Circuit Analysis, Microprocessor and Microcontroller, Medical Physics, Nuclear and Particle Physics, Communication Systems, Digital Signal Processing, Dissertation
<b>M.Sc. (Hons.) Physics Semester-I</b>		<b>Semester-II</b>	
Paper-1	Mathematical Physics I	Paper-1	Mathematical Physics-II,
Paper-2	Classical Mechanics	Paper-2	Statistical Mechanics
Paper-3	Quantum Mechanics	Paper-3	Relativistic Quantum Mechanics and Quantum Field Theory
Paper-4	Semiconductor Devices & Analog Electronics Physics Laboratory- I & Project Work Computational Techniques I	Paper-4	Classical Electrodynamics Physics Laboratory II Computational Techniques II
<b>Semester-III</b>		<b>Semester-IV</b>	
Paper-1	Classical Electrodynamics and General Theory of Relativity	Paper-1	Condensed Physics-II
Paper-2	Condensed Matter Physics I	Paper-2	Nuclear Physics-II
Paper-3	Nuclear Physics-I	Paper-3	Particle Physics-II
Paper-4	Particle Physic-I Electronics-II Physics Laboratory III	Paper-4	Physics Laboratory-IV/Project Work Special Paper (Any one): Astrophysics, Electronics, Experimental Techniques in Nuclear Physics and Particle Physics, Fiber Optics and non-linear optics, informatics, non-linear dynamics, particle accelerator physics, Physics of Nano-materials, Science of Renewable Energy Resources, Advance Statistical Mechanics, Experimental Techniques in Physics

**M.Sc.(Hons) Physics and Electronics**

<b>Semester-I</b>		<b>Semester-II</b>	
Paper-1	Mathematical Physics-I	Paper-1	Relativistic Quantum Mechanics and Quantum Field Theory
Paper-2	Classical Mechanics	Paper-2	Statistical Mechanics
Paper-3	Quantum Mechanics	Paper-3	Electronics-II/Digital Electronics
Paper-4	Electronics-I: Semiconductor Device and Analog Electronics	Paper-4	Classical Electrodynamics
Paper-5	Physics Laboratory-I & Project	Paper-5	Physics Laboratory-II and Project Work
Paper-6	Computational Technique-I	Paper-6	Computational Techniques-II
<b>Semester-III</b>		<b>Semester-IV</b>	
Paper-1	Microprocessor and Microcontrollers	Paper-1	Advanced Microcontrollers and Microprocessors
Paper-2	Electronics Instrumentation and Power Electronics	Paper-2	Integrated and VLSI Circuit design
Paper-3	Condensed Matter Physics-I	Paper-3	Digital Signal Processing
Paper-4	Nuclear Physics-I	Paper-4	Major Project Work
Paper-5	Particle Physics-I	Paper-5	Special Paper (Any one): Experimental techniques in Physics, Condensed Matter Physics, Nuclear Physics, Particle Physics, Digital Communication, Physics of Nano-materials, Experimental techniques in Nuclear Physics and Particle Physics
Paper-6	Physics Laboratory-III and Project Work		

**THRUST AREAS:** Nuclear Physics (Experimental), Nuclear Physics (Theory), Particle Physics (Experimental), Particle Physics (Theory), Condensed Matter Physics (Experimental), Condensed Matter Physics (Theory). Other research areas include Astrophysics and Planetary Sciences, Molecular Spectroscopy and Physics Education.

**PLACEMENTS:** The students pursue career in teaching and research after qualifying CSIR/UGC NET. Students qualify various entrance examination/interviews for pursuing research in premier institutes like IISc, TIFR, BARC, DRDO, ISRO, IMSc, RRI, PRL, IIT and IISER. Students also qualify GATE to pursue professional courses, like M.Tech., MCA, etc. Students also qualify GRE for further studies abroad. Significant number of students go for Post graduation at TIFR, IISc, IMSc, and IITs after qualifying B.Sc (Hons.) from PU. Students are also placed through PU Central Placement cell.

**ALUMNI RELATIONS:** The Physics Department has an association of its alumni. Annual meeting of the Physics Department Alumni is a regular feature and held in the month of December. It gives a platform to its alumni to share their experiences and also act as motivator for the students of the department.

**DEPARTMENT OF STATISTICS****ABOUT THE DEPARTMENT**

The Department of Statistics was established in 1964 as a part of Mathematics Department and it has been an independent Department since 1974. The Department offers M.Sc., M.Phil and Ph.D. Courses in Statistics. The courses are designed to develop analytic and inferential aptitude of the students through theory and rigorous practical assignments along with exposure to practical training during the course of their study. The Department has been receiving grants under Special Assistance Programme of UGC since April, 2004. At present, the Department is getting financial support from UGC as it has been recognised as DSA (Department under Special Assistance), Phase-III and this shall continue till March 31, 2021. It was a COSIST Department under another UGC scheme, and also a FIST Department under a scheme of the Department of Science and Technology of the Government of India. It is among one of the active departments in the country carrying out research in the fields of Multiple Comparison Procedures, Reliability and Survival Analysis, Statistical Inference and Applied Statistics (Actuarial Statistics, Bio-Statistics, Econometrics and Income Distributions). The Department has a well equipped Computer laboratory with access to softwares like MINITAB, SPSS, SYSTAT, R, S-PLUS and STATGRAPHICS. The students are given

training for usage of R and SPSS software for solving their practical assignments. To run the practicals and research work smoothly and without interruption, the department is in possession of a 125 KVA silent DG SET. Eminent Statisticians from India and other countries keep visiting the Department frequently for delivering lectures and research collaboration. The faculty members attend National and International conferences. Interaction with neighbouring industries in the field of process control and with institutes like PGIMER, GMCH, NIPER, IMTECH and NITTER etc. for providing research consultancy to doctors and researchers is another highlight of the Department of Statistics. The faculty members also collaborate with sister departments for research and data analysis. The Department of Statistics has an independent Library which has on shelf more than 4000 books and access to more than 30 journals.

### FACULTY

Designation	Name	Field of Research Specialization
Professors	Kalpana K Mahajan	Statistical Inference, Applied Statistics, Income Inequality & Lorenz Dominance, Environmental Statistics.
	Amar Nath Gill	Multiple Comparison Procedures, Statistical Inference Applied Statistics.
	Kanchan K. Jain (Chairperson)	Reliability, Survival Analysis, Distribution Theory, Actuarial Statistics, Bio-Statistics, Measurement Error Models, Income Inequality
	Sangeeta Chopra	Applied Statistics, Income Inequality & Lorenz Dominance, Environmental Statistics, Statistical Inference
	Narinder Kumar Suresh K. Sharma	Statistical Inference and Multiple Comparison Procedures Biostatistics, Statistical Modeling, Ranking and selection and related estimation problems, Statistical Inference, Applied Statistics, Measurement Error Models
Assistant Professors	Manoj Kumar	Linear Models, Econometrics
	Anju Goyal	Ranking and Selection Methodology, Multiple Comparison Procedures, Statistical Inference.

### COURSES OFFERED (SEMESTER SYSTEM)

Course	Seats	Duration	Eligibility *	Admission Criteria
M.Sc.	34+5 NRI	2 Years	B.A./B.Sc. (General or Honours) with Mathematics/Statistics obtaining either at least 50% marks in aggregate or at least 45% in Statistics / Mathematics.	Based on Merit**
M.Phil.	10 (Maxi.) 05 (Mini.)	1 Year	See M.Phil./Ph.D. Prospectus 2017	
Ph.D.	05	3-6 Years	See M.Phil./Ph.D. Prospectus 2017	
*5% Concession is admissible in eligibility marks to SC/ST/BC/PwD candidates				
**For calculation of Merit, marks of other Universities will be normalized to 2400 marks which are 3- years aggregate marks of B.A./B.Sc.(Gen) of PU. Similarly marks obtained in the relevant subject will be normalized to 600 marks which are the total of 3 years aggregate marks of B.Sc./B.Sc. (Gen) of elective subject of PU.				

**TITLES OF SYLLABI:** (Detailed syllabus available at <http://puchd.ac.in/syllabus.php>)

#### M.Sc.

Semester-I		Semester-II	
Stat-101	Linear Algebra	Stat-201	Statistical Computing using FORTRAN (Theory 1/2, Practical 1/2)
Stat-102	Distribution Theory	Stat-202	Estimation and Testing of Hypotheses (Theory 3/4, Practical 1/4)
Stat-103	Statistical Methods with Packages (Theory 3/4, Practical 1/4)	Stat-203	Sampling Theory and Official Statistics (Theory 3/4, Practical 1/4)
Stat-104	Course selected from module	Stat-204	Course selected from module

Semester-III		Semester-IV	
Stat-301	Nonparametric Inference (Theory 3/4, Practical 1/4)	Stat-401	Multivariate Analysis (Theory 3/4, Practical 1/4)
Stat-302	Statistical Process and Quality Control (Theory 3/4, Practical 1/4)	Stat-402	Design and Analysis of Experiments (Theory 3/4, Practical 1/4)
Stat-303	Linear Inference (Theory 3/4, Practical 1/4)	Stat-403	Course selected from module
Stat-304	Course selected from module	Stat-404	Course selected from module
Stat-305	Computational Techniques Using R (Theory 1/2, Practical 1/2) * * will be introduced after necessary approval of the competent authorities.		
Module		Module	
M -1	Actuarial Statistics	M- 8	Real and Complex Analysis
M -2	Categorical Data Analysis	M- 9	Reliability
M -3	Econometrics (Theory 3/4, Practical 1/4)	M -10	Simultaneous Inference
M -4	Economic Statistics	M -11	Statistical Simulation and Computation (Theory 1/2, Practical 1/2)
M -5	Advanced Inference (Theory 3/4, Practical 1/4)	M -12	Stochastic Processes
M -6	Measure and Probability Theory	M -13	Survival Analysis
M -7	Operations Research (Theory 3/4, Practical 1/4)		

**THRUST AREAS:** Multiple Comparison Procedures, Reliability and Survival Analysis, Statistical Inference and Applied Statistics (Actuarial Statistics, Bio-Statistics, Econometrics and Income Distributions).

**PLACEMENT:** Some good companies visit the department for placing students as Analysts and Data Scientists. Prominent among these are Tata Consultancy Services and Annik Technologies.

**ALUMNI RELATIONS:** The Alumni Association of the department named as Statistics Students Alumni Reunion (SSAR) has ninety members. The efforts are on for inclusion of more members. Some alumni are highly placed as IAS, IPS Officers, research officers and analysts. They keep on providing guidance to the department.

## CENTRE FOR MEDICAL PHYSICS

### ABOUT THE CENTER

The Centre for Medical Physics was created in 2007, as joint venture of Panjab University and Post Graduate Institute of Medical Education & Research (PGIMER), Chandigarh, to utilize technology dependent specialties coming out of the new scientific innovations for the immediate need of the society, i.e. good health. Medical Physics is an established clinical specialty with wide ranging applications in Radiotherapy Planning and treatment. It can be defined as embracing all applications of radioactive sources in the treatment of cancerous and non cancerous diseases. The students of Medical Physics discipline gain knowledge about different equipments used in Radiotherapy planning and treatment and their quality assurances. Medical Physicists play a leading role in the areas of radiation safety and development of instrumentation/technology for use in radiation therapy and diagnostic radiology. There is an ample scope for research in the area of medical physics. Atomic Energy Regulatory Board (AERB) is the regulatory body for the M.Sc. Medical Physics Course. The syllabus of Medical Physics course has been designed in such a way that it shall make the student a competent Medical Physicist, Researcher, Radiation Safety Officer and Teacher after qualifying this course. In addition a certification for the Radiation Safety Officer (Level-III) from the Atomic Energy Regulatory Board (AERB) to the students is mandatory for them to be qualified in running the radiation facilities independently and handling of the treatment of patients.

**FACULTY**

Designation	Name	Field of Research Specialization
Professor	Devinder Mehta (Co-ordinator)	Experimental Nuclear Physics
Assistant Professor	Vivek Kumar	Experimental Nuclear Physics and Medical Physics

**COURSES OFFERED (SEMESTER SYSTEM)**

Course	Seats	Duration	Eligibility*	Admission Criteria
M.Sc.	8+ 2 NRI	3 Years	B.Sc. (Regular course) first class with Physics as one of the core subjects (studied for three years) and Mathematics as one of the subjects (studied for minimum two years) from a recognized university.	Based on P.U.CET(PG) Academics: 50% P.U.CET(PG):50%
Ph.D	Subject to availability	3-6 Years	See M.Phil/Ph.D. Prospectus-2017	

\*5% concession is admissible in eligibility marks to SC/ST/BC/PwD candidates

**TITLES OF SYLLABI:** (Detailed syllabi available at <http://puchd.ac.in/syllabus.php> )

**M.Sc.**

Semester I		Semester II	
Paper-1	Cytology and Fundamental Anatomy of Human Body	Paper-1	Basic Physiology and Cancer Biology
Paper-2	Applied Mathematics, Biostatistics and Computer Applications	Paper-2	Analog and Digital Electronics
Paper-3	Radiation Physics	Paper-3	Radiation Detection and Measurements
Paper-4	Radiation Biology	Paper-4	Bio-Medical Applications of Radioisotopes
Semester III		Semester IV	
Paper-1	Radiotherapy Equipments and Quality Assurances	Paper-1	Brachytherapy Treatment Planning and Radiobiological Models
Paper-2	Medical Imaging Equipments and Quality Assurances	Paper-2	Clinical Dosimetry and Standardization
Paper-3	Basics of Radiation Dosimetry	Paper-3	Principles of Radiation Protection and Radiation Safety
Paper-4	Teletherapy Treatment Planning	Paper-4	Recent Advances in Radiotherapy and Special Techniques

**Third Year:** Internship with Dissertation

**THRUST AREAS:** External beam radiotherapy, Brachytherapy, Radiobiology, Radiation Protection.

**PLACEMENTS:** The Centre for Medical Physics has 100% placements in the medical institutions/universities, accelerator/reactor laboratories. Our students have got placements in the medical institutions like PGIMER (Chandigarh), BLK Super Specialty Hospital (Delhi), Govt. Medical College (Chandigarh), IGM (Shimla) and many other hospitals in the country. Students are also pursuing Ph.D. in India and Abroad.

**ALUMNI RELATIONS:** The alumni are invited to participate to celebrate International Day of Medical Physics every year on 7<sup>th</sup> Nov. on the occasion of birthday of Nobel Laureate Marie Curie. It gives a platform to its alumni to share their experiences and also act as motivator for the students of the Centre. Efforts are in process to establish association of alumni of the Centre for Medical.

## DEPARTMENT OF MICROBIAL BIOTECHNOLOGY

### ABOUT THE DEPARTMENT

The department was founded as 'Centre for Microbial Biotechnology' at Panjab University in July 2008 under the aegis of "Centre for Emerging Areas in Science and Technology", with the aim of catering to the needs of the Biotechnology industry. Over the years, the centre has evolved and transformed into a full-fledged independent department of the University. Currently, it is running from South Campus, Near Dental College, Sector- 25, Panjab University, Chandigarh. The department runs Master's and Doctoral degree programme.

The M.Sc. programme of the department has been designed in consultation with the experts from both academia and industries keeping in mind the requirements and challenges of the microbial biotechnology research and its translation into entrepreneurship. The M.Sc. course comprises of four semesters. First three semesters are dedicated to strengthen theoretical and practical foundation while the fourth semester is dedicated to a research project/dissertation and seminars. The Ph.D. programme is open to students who would like to do research in relevant fields.

### FACULTY

Designation	Name	Field of Research Specialization
Professor (Re-employed)	Rupinder Tewari	Industrial Microbiology and Biotechnology
Associate Professor	Rohit Sharma ( <b>Chairperson</b> )	Industrial Microbiology & Biotechnology
Assistant Professors	Rachna Singh	Medical Microbiology
	Samer Singh	Microbial Biotechnology
INSPIRE Faculty	Indresh Kumar Maurya	Industrial Microbiology

### COURSES OFFERED (SEMESTER SYSTEM)

Course	Seats	Duration	Eligibility*	Admission Criteria
M.Sc.	20+2 NRI	2 Years	Bachelors degree in any field of biological sciences including Biotechnology	Based on PU-CET(PG) Academics: 50% PU-CET(PG):50%
Ph.D.	Subject to availability	3-6 Years	See M.Phil / Ph.D Prospectus 2017	

\*5% Concession is admissible in eligibility marks to SC/ST/BC/PwD candidates

**TITLES OF SYLLABI:** (Detailed syllabi available at <http://puchd.ac.in/includes/syllabus/2016/20160824161823-m.sc.microbialbiotechnology2016-17.pdf?201604103211>)

### M.Sc.

Semester-I		Semester-II	
Paper-1	MBT-101 Microbial Biodiversity and Physiology	Paper-1	MBT-201 Medical Microbiology
Paper-2	MBT-102 Immunology and Immunotechnology	Paper-2	MBT-202 Molecular Biology
Paper-3	MBT-103 Genetics and Recombinant DNA Technology	Paper-3	MBT-203 Industrial Microbiology-1 (Health, Food, Enzymes)
Paper-4	MBT-104 Microbial Biochemistry and Enzymology	Paper-4	MBT-204 Bioinformatics & Biostatistics
Paper-5	MBT-105 Bioprocess Engineering	Paper-5	MBT-205 Intellectual Property Rights (IPR), Bioethics & Entrepreneurship
<b>Semester-III</b>		<b>Semester-IV</b>	
Paper-1	MBT-301 Advances in Microbial Biotechnology (Genomics, Proteomics, Metabolomics)	Paper-1	MBT-401 Seminar & Tutorials
Paper-2	MBT-302 Industrial Microbiology-II (Environment, Biofuels, Chemicals, Biomass, Protocols)	Paper-2	MBT-402 Dissertation
Paper-3	MBT-303 Bioinstruments and their Applications		
Paper-4	MBT-304 Microbial Identification, Diagnostics & Nanobiotechnology		
Paper-5	MBT-305 Tutorials		

**THRUST AREAS:** Extremozymes, Antimicrobials, Biofilms, Vaccine Development

**PLACEMENTS:** Process has been initiated to compile the data

**ALUMNI RELATIONS:** Process has been initiated

## **CENTRE FOR NANO SCIENCE AND NANOTECHNOLOGY**

### **ABOUT THE CENTRE**

The research oriented M.Tech. programme in Nanoscience and Nanotechnology was started in 2005 in the University Centre for Instrumentation Micro-electronics (UCIM). Being the first course of its kind in northern part of the country, it was a challenging task to have undertaken. In 2008 the course was placed under the newly formed Centre for Emerging Areas in Science and Technology (CEAST). Currently it is run by Centre for Nanoscience and Nanotechnology under University Institute for Emerging Areas in Science and Technology.

The course is of 2 years' duration and interdisciplinary in nature encompassing the areas of chemistry, physics, biology and engineering. It comprises of conceptual knowledge of nanoscience and nanotechnology, including preparation of nanomaterials, their characterization and applications. Hands-on training is provided to the students at central Sophisticated Analytical Instrumentation Facility (SAIF) of Panjab University on the various instruments relevant to nanotechnology (Electron Microscopes-SEM & TEM), FT NMR Spectrometer (400 MHz), FTIR/IR and Raman Spectrophotometer, UV-VIS-NIR Spectrophotometer, X-Ray Diffractometer (Powder Method), HPLC, Fluorescence Spectrophotometer). The final year students do their projects in collaboration with industry and reputed laboratories and institutions across India. The passing out students have found excellent employment/research positions at various industries and institutions.

The Centre has close collaboration with national scientific institutions in the country like NPL- Delhi, IIT-Ropar, CSIO-Chandigarh, CSIR-Delhi, NIPER-Mohali and IHBT-Palampur, etc. There have been regular interactions with the faculty from these organizations through visits and guest lectures. The Centre has recently signed MOU with Saitama University, Japan for students exchange programme. The Centre is mainly focused on imbibing up-to-date learning in the field of nanoscience and nanotechnology. The Centre is also involved in cutting edge research and innovation through active research and creating state of the art research infrastructure. Faculties of CNSNT are also involved in extensive collaborations with premier research institutes worldwide and are actively engaged in developing novel nanomaterials and technologies for applications in the areas of optoelectronics, nano-plasmonics, biosensing, solar energy harvesting, and drug delivery & healthcare.

### **FACULTY**

<b>Designation</b>	<b>Name</b>	<b>Field of Research Specialization</b>
Professors	Devinder Mehta ( <b>Coordinator</b> )	Experimental Nuclear Spectroscopy and X-ray Spectroscopy
	S.K. Tripathi ( <b>Co-coordinator</b> )	Thin films, nanomaterials & device fabrication.
Associate Professor	Sunil Arora	Synthesis and characterization of novel nano-materials, Nano-magnetism, Nano-electronics, Spin-electronics, Epitaxial growth using MBE and sputtering, Nanofabrication, Engineering nanoscale defects, 2D-layered materials (graphene and transition metal dichalcogenides) synthesis and hetero-interfaces devices
Assistant Professor	Jadab Sharma	Synthesis of new-age materials, assemblies, and fabrication of devices based on such materials for their various applications in nano-plasmonics & photonics and solar energy harvesting.
Temporary Faculty	Richa Rastogi Thakur	Nano materials based biosensors for healthcare applications.
	Vikram Singh (Inspire Faculty)	Framework structures based on nanostructured assemblies for anion sensing applications.

**COURSE OFFERED (SEMESTER SYSTEM)**

Course	Seats	Duration	Eligibility*	Admission Criteria
M.Tech (Nanoscience & Nanotechnology)	10+3NRI	2 Years	Bachelor's degree (4-years after 10+2) in Engineering/Technology, i.e. B.E./ B. Tech. (in any branch) OR Master's degree in Physics/ Chemistry/Biophysics/Biochemistry /Microbiology/Biotechnology/ NanoScience/Electronics with minimum 50% marks in the aggregate.	Based on PUCET (PG) Academics: 50% PUCET (PG): 50%
*5% Concession is admissible in eligibility marks to SC/ST/BC/PwD Candidates				

**M.Tech**

Semester-1		Semester-II	
MNT6101	Foundation of Nanoscience Quantum and Statistical Machanics	MNT6201	Chemistry of Nanomaterials and Fabrication
MNT6102	Basics of Biology and Biotechnology in Nanoscience & Nanotechnology	MNT6202	Nano-biotechnology
MNT6103	Foundation of Nanoscience-Physical chemistry aspects	MNT6203	Physics of Nanomaterials
MNT6104	Synthesis and Characterization of Nano-materials	MNT6204	Semiconductor Devices in Nanoscience & Nanotechnology , MEMS and NEMS
MNT6105	Scientific Computation and Simulation in Nanoscience & Nanotechnology-1	MNT6205	Carbon Nanotube, its Functionalization and Nanofluidics
MNT6106	Laboratory-1	MNT6206	Laboratory-II
		MNT6207	Scientific Computation & Simulation-1
Semester-III Semester-IV			
MNT7101	Supramolecular and Surface Chemistry of Molecular Devices	MNT7201	Major Project & Thesis
MNT7102	Nanocomposites: Structure Properties & Performance	MNT7202	Seminar
MNT7103	Project & Thesis Preliminary		
MNT7104	Laboratory-III		

**THRUST AREAS**

- Use of nanomaterial in Sensing Applications, Nanoparticles in Immunodiagnostics and Healthcare Applications, Metallic Nanoparticles for Pesticide and Contaminants Detection, Design of Polymer Nanocomposites.
- 2D-Layered materials, Graphene based Devices, Transition Metal Dichalco- genides for Photovoltaic, Optoelectronics.
- Third generation solar cells and interconnect materials.
- Nano-plasmonics and Photonics.

**CENTRE FOR NUCLEAR MEDICINE****ABOUT THE CENTRE**

Nuclear medicine is a medical specialty concerned with the use of safe and small amounts of radioactive materials for diagnostic, therapeutic, and research purposes. More specifically, nuclear medicine is a part of molecular imaging because it produces images which reflect biological processes that take place at the cellular and subcellular levels. Though there are many diagnostic techniques currently available, nuclear medicine uniquely provides information about both the structure and function of virtually every major organ system within the body. It is this ability to characterize and quantify physiologic



function which separates nuclear medicine from other imaging modalities, such as x-ray, MRI and ultrasound. A typical nuclear medicine study involves the administration of a radionuclide into the body in order to obtain images of the organs, to perform various body function studies and to treat diseases.

Nuclear medicine experts designated as Nuclear Medicine Physicists are highly skilled individuals and their responsibilities include performing in vivo, radiation safety and quality control procedures. Other responsibilities which include operating the cameras that create images including patient positioning and processing the data for research purposes. The discipline of nuclear medicine also produces dedicated scientists who develop radiopharmaceuticals/radioisotopes for the imaging of organs and therapies.

#### Vision and mission of the Centre

Nuclear medicine is an emerging area in medicine and is growing at a fast pace in India and there is an urgent need for trained human resource as medical physicists and radiation safety officers for running nuclear medicine departments and industries that use radioisotopes. Therefore, the centre shall provide trained manpower to cater the needs of various hospitals, medical colleges/Institutes and Industry in India and abroad. The mission of the M.Sc. Nuclear Medicine Programme at Panjab University is to provide the students an opportunity to achieve expertise both in diagnostic imaging and therapeutics with clinical hands on experience in Nuclear Medicine. The Centre imparts a quality education leading to the award of degree in Masters of Science in Nuclear Medicine and train the students for national/international eligibility test to be designated as certified Radiation safety officers and medical physicists.

#### Unique features of the course

Panjab University is the second institution after AIIMS to start M.Sc. Course in Nuclear Medicine, which is approved by Atomic Energy Regulatory Board of India. The course is being conducted jointly with Department of Nuclear Medicine, PGIMER, Chandigarh and the students get ample opportunity for hands on clinical training.

#### FACULTY

Designation	Name	Field of Research Specialization
Professor	Rajat Sandhir (Co-ordinator)	Neuroscience
Assistant Professor	Vijayta D. Chadha	Radiation biology and Radiopharmacy

#### COURSES OFFERED (SEMESTER SYSTEM)

Course	Seats	Duration	Eligibility*	Admission Criteria
M.Sc.	10+2 NRI	2 Years	B.Sc. with at least 50% marks from a recognized university with Physics and Chemistry (Non-medical stream) or Chemistry and Zoology/ Biotechnology (Medical stream) as core subjects. Candidates having B.Sc. in Nuclear Medicine / Biophysics shall also be eligible for admission to the course. Candidates with B.Sc. degree in X-ray / Medical Technology, B.Sc. through correspondence and open University stream are not eligible.	Based on PU-CET(PG) Academics: 50% PU-CET(PG)50%
Ph.D	Subject to availability	3-6 Years	See M.Phil/Ph.D Prospectus 2017	

\*5% Concession is admissible in eligibility marks to SC/ST/BC/PwD candidates

**TITLES OF SYLLABI :** (Detailed syllabus available at <http://puchd.ac.in/syllabus.php>)

#### M.Sc.

Semester- I		Semester-II	
Paper-1	Human Anatomy and Cell physiology Biology	Paper-1	Human Physiology, Immunology and Cancer
Paper-2	Radiation Physics and Applied Mathematics	Paper-2	Electronics, Biomedical instrumentation and Techniques
Paper-3	Radiation Biology and Chemistry	Paper-3	Biostatistics and Computer applications
Paper-4	Radiation Detection and Measurements	Paper-4	Medical Applications of Radioisotopes

Semester- III		Semester-IV	
Paper-1	Nuclear Medicine Instrumentation	Paper-1	Medical Cyclotron, PET/CT & Allied Instrumentation
Paper-2	Radiological Protection & Dosimetry	Paper-2	Radiological Protection & Dosimetry
Paper-3	Principles and practice of Radiopharmacy	Paper-3	Nuclear Medicine Imaging & Radionuclide Therapy
Paper-4	Nuclear Medicine Imaging and Non-Imaging Procedures	Paper-4	Recent advances in Nuclear Medicine.

**THRUST AREAS:** To educate individuals to become high quality nuclear medicine technologists and Radiation safety officers. To provide a complete, up-to-date competency-based curriculum. To fulfill the need for nuclear medicine technologists in the local and regional communities.

**PLACEMENTS:** 100% placement of students as Medical physicists and Radiological safety Officers with a starting package of 5-7 lakhs per annum. Alumni working with nation renowned institutes/hospital viz PGIMER, Chandigarh; AIIMS, New Delhi; CMC, Ludhiana Oswal, Ludhiana; Tata Memorial Hospital, Mumbai; Rajiv Gandhi Cancer Speciality Hospital, Delhi; Baba Farid University, Faridkot; Safdarjung Hospital, Delhi; Max Hospital, Chandigarh

**ALUMNI RELATIONS:** Centre for Nuclear Medicine got the first Batch of M.Sc. Nuclear Medicine passed out in 2009. Till now, 8 Batches have Nuclear Medicine passed out after completion of M.Sc. degree and therefore, the Centre is now planning to form a formal Alumni Association of Centre for Nuclear Medicine so as to keep updated information/record about the Alumni placements and to organise Alumni meets/events regularly.

## CENTRE FOR PUBLIC HEALTH

### ABOUT THE CENTRE

Panjab University is running Master in Public Health since year 2007 under UIEST to cater with the emerging needs of the country to produce trained manpower for handling public health issues. Public Health is emerging as one of the most significant areas as health of the citizen is important resource and asset of a nation. Major advances in improvement of health over the next decade will be through the development and application of preventive programmes. Health service delivery systems are undergoing rapid changes. It is important to prepare a task force of experts in domain of public health. This course is being offered to prepare Public Health professional and to strengthen capacity of various Health Organization.

### FACULTY

Designation	Name	Field of Research Specialization
Assistant Professor	Suman Mor (Co-ordinator)	Environment, Sanitation and Health
Assistant Professor (Temporary)	Manoj Kumar	Community Medicine

### COURSES OFFERED (SEMESTER SYSTEM)

Course	Seats	Duration	Eligibility*	Admission Criteria
Master in Public Health	17+2NRI + 5 in-service**	2 Years	Bachelor's degree in any discipline with at least 50% marks from recognized University / Institute.	Based on PU-CET (PG) Academics : 50% PU- CET(PG) : 50%
Ph.D	Subject to availability	3-6 Years	See M.Phil/Ph.D Prospectus 2017	

\* 5% concession is admissible in eligibility marks to SC/ST/BC/PwD candidates

\*\*Only regular employees in Government organization and having at least one year service experience to be admitted under "In-Service" category. The Candidate has to produce "No Objection Certificate" at the time of admission. In case of non-availability of in-service candidates the seats will be converted into General Category

**TITLES OF SYLLABI** (Detailed syllabus available at <http://puhcd.ac.in/syllabus.php>)

<b>Master in Public Health Semester- I</b>		<b>Semester- II</b>	
Paper I	Basic Concepts in Public Health	Paper I	Biostatistics
Paper II	Basic Epidemiology-I	Paper II	Environmental Health
Paper III	Maternal and Child Health	Paper III	Survey Methods
Paper IV	Basic Computing and Research Methodology.	Paper IV	Public Health in Emergencies, Disasters and Conflicts
Paper V	Open Elective – Occupational Health and Safety Management.	Paper V	Open Elective -Genetics and Public Health OR Global Health
Paper VI	Basic Concepts in Life Sciences OR Basic Concept in Social Sciences		
<b>Semester- III</b>		<b>Semester- IV</b>	
Paper I	Basic Epidemiology-II	Paper I	Public Health Law, Ethics and Human Rights
Paper II	Health Economics and Planning	Paper II	Health Education and Counseling
Paper III	Bioinformatics	Paper III	Dissertation
Paper IV	Elective-Health for Special Groups OR Public Health in India and World Internship Dissertation		

**THRUST AREAS:** Health Service, Health Promotions, Epidemiology, Health Education, Environmental Health, Nutrition.

**PLACEMENTS:** Off Campus Placement

**ALUMNI RELATIONS:** First Alumni meet was held on 07<sup>th</sup> May, 2016.

## **CENTRE FOR STEM CELL TISSUE ENGINEERING & BIOMEDICAL EXCELLENCE**

### **ABOUT THE CENTRE**

The centre offers two years (four semesters) M.Sc. degree course in Stem Cell & Tissue Engineering. This course was started in 2008 and is intended for graduate students interested in pursuing their careers in the field of stem cell biology. This course will cover the most current knowledge of the principles of stem cell biology, tissue engineering, developmental biology, molecular signaling, genomic, epigenomic & non-genomic regulatory pathways together with immunology, genetics, human anatomy & physiology. The course curriculum has been designed to provide strong emphasis on experimental training to the students. During the first three semesters students will be imparted strong theoretical and practical trainings. In the fourth semester students will be trained to handle the research work related to the field. They will also be trained to write the projects, make presentations in the form of seminars and journal clubs along with the training in the Research methodologies. A continuous evaluation will be followed.

### **FACULTY**

<b>Designation</b>	<b>Name</b>	<b>Field of Research Specialization</b>
Professor	Sanjeev Puri <b>(Co-ordinator)</b>	Renal Tissue Engineering & Molecular Biology of Renal Pathophysiology
Assistant Professors	Seemha Rai Anuj Gupta	Cancer Stem Cells Biochemistry & Cell and Molecular Biology

### **COURSES OFFERED (SEMESTER SYSTEM)**

<b>Course</b>	<b>Seats</b>	<b>Duration</b>	<b>Eligibility*</b>	<b>Admission Criteria</b>
M.Sc.	15+ 2 NRI	2 Years	50% marks in B.Sc. General/Life Sciences /Basic Medical Science / Engineering (Biotech /Biomedical)/Pharmaceutical/ Biotechnology / Dentistry	Based on Aptitude Test
Ph.D	Subject to availability	3-6 Years	See M.Phil/Ph.D Prospectus 2017	

\*5% Concession is admissible in eligibility marks to SC/ST/BC/PwD candidates

**TITLES OF SYLLABI :** (Detailed syllabus available at <http://puchd.ac.in/syllabus.php> )

<b>M.SC.</b>	<b>Semester-I</b>		<b>Semester-II</b>
Paper-1	Human Anatomy and Physiology	Paper-6	Histology
Paper-2	Cell Culture & Cell Technologies	Paper-7	Immunology & Immunogenetics
Paper-3	Genomics & Proteomics-I	Paper-8	Stem Cell Biology-I
Paper-4	Cells and Molecular Biology	Paper-9	Genomics & Proteomics-II
Paper-5	Cell and Molecular Techniques	Paper-10	Tissue Engineering-I Biomaterials
	<b>Semester -III</b>		<b>Semester -IV</b>
Paper-11	Developmental Biology	Paper-16	Stem Cell Research Methodology
Paper-12	Stem Cell Signal Transduction & Epigenetic Mechanisms	Paper-17	Biostatistics and Computational Approach
Paper-13	Stem Cell Biology-II	Paper-18	Journal Club/Seminar
Paper-14	Stem Cell Translational & Ethics	Paper-19	Thesis/Project reports; Viva voce
Paper-15	Xenoantigens and Stem Cells		

**THRUST AREAS:** Renal Tissue Engineering & Molecular Biology of Renal Pathophysiology, cancer stem cell, stem cell differentiation and niche, toxicologic studies and kinetics.

**PLACEMENTS:** Students are placed in academia as well as industry. In academia, students are pursuing higher studies at prestigious institutes worldwide viz. Rosewell Cancer Institute, State University of New York, Buffalo, USA; Univ. of Manchester, UK; Monash Univ. Australia; ICGEB, New Delhi etc. and at industry level students are currently placed at various companies viz. Parexel International; Cordlife India, GlaxoSmithKline; MDR Labs etc.

**ALUMNI RELATIONS:** The Centre of Stem Cell & Tissue Engineering has its alumni cell.

## **CENTRE FOR SYSTEM BIOLOGY & BIOINFORMATICS**

### **ABOUT THE CENTER**

The Centre of System Biology & Bioinformatics was established at Panjab University, Chandigarh in 2007. The emerging field of computational and systems biology represents an integration of concepts and ideas from the biological sciences, engineering disciplines, and computer science. Systems modelling and design are well established in engineering disciplines but are relatively new to biology. Advances in computational and systems biology require multidisciplinary teams with skill in applying principles and tools from engineering and computer science to solve problems in biology and medicine.

The curriculum of the 2 year M.Sc. course of Systems Biology and Bioinformatics has a strong emphasis on foundational material to encourage students to become creators of future tools and technologies, rather than merely practitioners of current approaches. Areas of active research in this field include computational biology and bioinformatics, gene and protein networks, molecular biophysics, instrumentation engineering, cell and tissue engineering, predictive toxicology and metabolic engineering, imaging and image informatics, nanobiology and Microsystems, biological design and synthetic biology, neurosystems biology and cancer biology.

The Centre has also started Ph.D. Programme and at present five students are pursuing their Ph.Ds.

### **FACULTY**

<b>Designation</b>	<b>Name</b>	<b>Field of Research Specialization</b>
Professor	Suresh K. Sharma <b>(Co-ordinator)</b>	Statistical Modeling, Biostatistics, rankings and selection, Medical Statistics
Assistant Professors	Ashok Kumar	Cancer Biology and Genomics
	Tammanna R. Sahrawat	Conformational studies of peptides using ab-initio quantum mechanics based approaches; Homology modelling, functional characterization of proteins; Sequence based phylogenetic clustering and structure prediction; Toxicology
	Veena Puri	Neuronal Cell biology, Proteomics and Microarray data analysis

**COURSES OFFERED (SEMESTER SYSTEM)**

Course	Seats	Duration	Eligibility*	Admission Criteria
M.Sc.	13+2NRI	2 Years	Bachelor's degree with 50% Marks in Science (General or Hons.) with Bioinformatics, Biotechnology, Biochemistry, Biology, Botany, Chemistry, Electronics, Genetics, Life Science, Mathematics, Mathematics & Computing, Microbiology, Physics, Statistics, Zoology, Agriculture, Computer Science, Engineering, Medicine, Pharmacy and Veterinary Science	Based on PU-CET(PG) Academics: 50% PU-CET(PG):50%
Ph.D	Subject to availability	3-6 Years	See M.Phil/Ph.D. Prospectus 2017	

\*5% Concession is admissible in eligibility marks to SC/ST/BC/PwD candidates

**TITLES OF SYLLABI** (Detailed syllabi available at <http://puchd.ac.in/syllabus.php>)

**M.Sc.**

Semester-I		Semester-II	
MSBB-101	Biophysical Chemistry of Biomacromolecules	MSBB-201	Spectroscopic Methods in Structural Biology
MSBB-102	Metabolomics and Metabolic Pathway Engineering	MSBB-202	Genomics and recombinant DNA technology
MSBB-103	Basic Concepts in Mathematics (For students with Biology Background)	MSBB-203	Computational Methods of Sequence Analysis and Biomacromolecular informatics
MSBB-104	Basic Concepts in Biology (For students with Non-Biology Background)	MSBB-204	Programming in C++ and PERL
MSBB-105	Biostatistics	Practical-210	Based on MSBB201
MSBB-106	Data Management and Biological Databases	Practical-220	Based on MSBB202
Prac-110	Based on MSBB101	Practical-230	Based on MSBB203
Prac-120	Based on MSBB102	Practical-240	Based on MSBB204
Prac-150	Based on MSBB105	Seminar	On (i) (a) Data bases and Bioinformatics tools on the internet (b) Modeling tools-Visualization and genome matrix (c) Solving of structures using different softwares (ii) Journal Club
Prac-160	Based on MSBB106		
Semester-III		Semester-IV	
MSBB-301	Computation Cell Biology I	MSBB401	Computation Cell Biology II
MSBB-302	Systems Biology	MSBB402	Chemoinformatics
MSBB-303	Proteomics and Systems Biology	MSBB403	Advance Bioinformatics and Nanotechnology
MSBB-304	Molecular Modeling and Computer aided Drug Design		Project Work and Oral Presentation
Practical-310	Based on MSBB301		
Practical-320	Based on MSBB302		
Practical-330	Based on MSBB303		
Practical-340	Based on MSBB304		
Seminar	On (i) (a) AMBER & Molecular dynamics, (b) E-cell (c) PyBio-S (d) System Biology benchworks (ii) Journal Club		

**THRUST AREAS:** (I) Statical Modelling, Biostatistics and Bioinformatics (ii) Cancer Biology and Genomics (iii) Conformational Studies and Sysbiomic (iv) Microarray data analysis.

**PLACEMENTS:** The Centre has its own placement cell and we approach different companies for placements of our students. Some students get jobs in Pharmaceutical industries like Quantum Solution, Panacea Biotech etc. Many others opt for Ph.D. programme and Research Projects after completing M.Sc. in our own Centre as well as in adjoining institutes like IMTECH, PGIMER etc.

**ALUMNI RELATIONS:** Since the Centre of Systems Biology & Bioinformatics was established at Panjab University, Chandigarh in 2007 and we are in the process of forming a strong data base for our Alumni.

## DEPARTMENT OF ZOOLOGY

### ABOUT THE DEPARTMENT

The Department of Zoology was established at Lahore in 1906 and later shifted first to Hoshiarpur after the partition of country and then to Chandigarh in July 1960. The department provides excellent opportunities to students who can acquire training and degree in Zoology through B.Sc. and M.Sc. (Honours) programme. The department has been organizing, seminars, symposia, workshops, field trips and other extra curricular activities from time to time for overall development of the young students.

The Department was awarded Centre of Advanced Studies (CAS-I) by the UGC from April 2007 to April 2012 under the thrust area of Biodiversity: Cell and Molecular Biology with a grant of Rs. 78.25 lacs. The UGC upgraded the department in 2015 to the level of CAS-II for five years with a financial assistance of Rs. 161.55 lacs and two research fellows. The Department was also recognised by the Department of Science and Technology in 2013 under its FIST programme and sanctioned a grant of 1.10 crores for 5 years. With this grant a flow cytometry laboratory was established with the most sophisticated LSR Fortessa Cell Analyzer.

The Department is running research projects funded by different agencies like DST, DST (UT), DST (SERB), UGC and CSIR. The department has central sophisticated laboratories well equipped with scientific instruments such as Real Time PCR, 2D Gel Electrophoresis, Ultracentrifuge, HPLC etc. The Department has a computer lab. for routine work as well as for accessing research related data for students. The Department library is stocked with highly informative text and reference books in addition to national and international journals. The Department houses two state of the art museums having more than 5000 specimens covering the whole Animal Kingdom. The museum boasts of an extensive collection of skeletons, mounted animals and specimens preserved in formalin. The museum is well curated with maintained stock registers listing the scheduled and non scheduled animals as defined under wildlife (Protection) Act, 1972. The Department is maintaining an Apiary of European honeybee, *Apis mellifera* which serves as a model to acquaint and encourage the students towards self-employment potential of Applied Zoology. The Department arranges Educational-cum-Marine trip every year for B.Sc. (Honours) final year students in order to acquaint them with marine life.

### FACULTY

Designation	Name	Field of Research Specialization
Professors(Re-employed)	Neelima R Kumar	Applied Entomology
Professors	R. Jindal	Aquatic Biology
	V.L. Sharma	Cytogenetics
	Sukhbir Kaur( <b>Chairperson</b> )	Parasitology, Immunology
	V. K. Walia	Entomology
	Upma Bagai	Parasitology, Immunology
Associate Professor	Harpreet Kaur	Parasitology
Assistant Professors	Y.K. Rawal	Fish and Fisheries
	Archana Chauhan	Molecular Genomics
	Ravinder Kumar	Molecular Skin Biology, Stem Cell
	Ravneet Kaur	Fish Neurotoxicology & fish Biomaterial, Wetland Ecology
	Mani Chopra	Cytogenetics, Cell- Biology, Molecular toxicology
	Indu Sharma	Reproductive Physiology, Molecular Biology
	Vijay Kumar	Human Genetics, Molecular Biology

**COURSES OFFERED (SEMESTER SYSTEM)**

Course	Seats	Duration	Eligibility*	Admission Criteria
B.Sc.(Hons.)	25+4 NRI	3 Years	+2 examination under 10+2+3 system of education conducted by a recognized Board/University/Council	Based on PU-CET(UG) Academics: 25% PU-CET(UG):75%
M.Sc.(Hons.)	14+2 NRI	2 Years	B Sc. (Pass or Hons.) with 50% marks from recognized University or any other examination recognized by P.U. as equivalent thereto with Zoology as one of the elective subject	Based on P.-U-CET(PG) Academics: 40% P.-U-CET(PG):60%
M. Phil.	10	1 Year	See M.Phil/Ph.D. Prospectus 2017	
Ph. D.	Subject to availability	3-6 Years	See M.Phil/Ph.D. Prospectus 2017	

\*5% Concession is admissible in eligibility marks to SC/ST/BC/PwD candidates

**TITLES OF SYLLABI** (Detailed syllabi available at <http://puchd.ac.in/syllabus.php>)

**B. Sc.(Hons.)**

Semester-I		Semester-II	
BZO-C1	Non-Chordates I: Protista to Pseudocoelomates	BZO-C3	Non-Chordates II: Coelomates
BZO-C2	Principles of Ecology	BZO-C4	Cell Biology
AECC1	BZO-AECC1: English	AECC2	BZO: AECC2: Environmental Science
GE1*		GE3*	
GE2*		GE4*	
Semester-III		Semester-IV	
BZO-C5	Diversity of Chordates	BZO-C8C8	Comparative Anatomy of Vertebrates
BZO-C6	Physiology: Controlling and Coordinating Systems	BZO-C9C9	Physiology: Life Sustaining Systems
BZO-C7	:Fundamentals of Biochemistry	BZO-C10	Biochemistry of Metabolic Processes
SEC1		SEC2	
GE5*		GE6*	
Semester-V		Semester-VI	
BZO-C11	Molecular Biology	BZO-C13	Developmental Biology
BZO-C12	Principles of Genetics	BZO-C14	Evolutionary Biology
DSE1		DSE3	
DSE2		DSE4	

C: Core Courses; GE: General Elective; AECC: Ability Enhancement Compulsory Courses; SEC: Skill Enhancement Courses; DSE: Discipline Specific Elective

\* GE subjects are to be selected by the students from the pool of GE Subjects offered by various Departments of the University.

\*\*Skill Enhancement Courses (Opt any one per Semester in Semesters 3-4)

1. BZO-SEC1: Apiculture

2. BZO-SEC2: Aquarium Fish Keeping

\*\*Discipline Specific Elective Courses

(any two per semester in semesters 5-6)

1. BZO-DSE1: Animal Biotechnology

2. BZO-DSE2: Biology of Insecta

Generic Elective Subjects (Offered by Zoology Department) for students of other departments

1. BZO-GE1\*: Animal Diversity

2. BZO-GE2\*: Aquatic Biology

- |   |  |
|---|--|
| 3. BZO-DSE3: Endocrinology                          | 3. BZO-GE3*: Immunology                  |
| 4. BZO-DSE4: Fish and Fisheries                     | 4. BZO-GE4*: Human Physiology            |
| 5. BZO-DSE5: Immunology                             | 5. BZO-GE5*: Insect Vector and Diseases  |
| 6. BZO-DSE6: Parasitology                           | 6. BZO-GE6*: Evolution and Palaeontology |
| 7. BZO-DSE7: Reproductive Biology                   |  |
| 8. BZO-DSE8 : Wild Life Conservation and Management |  |

\*\*Courses under these will be offered only if a minimum of 10 students opt for the same

Outlines for Semester II will be same as for Semester I. A Department will run a particular Generic Elective Course only if the minimum number of students opting for that course is 10.

### M.Sc.(Hons.)

Semester- I		Semester- II	
Paper-1	Comparative Animal Physiology & Endocrinology	Paper-6	Methodology & Instrumentation
Paper-2	Cytogenetics & Cell Biology	Paper-7	Molecular Biology
Paper-3	Biology of Parasites	Paper-8	Biology of Vertebrate Immune System
Paper-4	Insects Ecology & Insect Physiology	Paper-9	Development Biology
Paper-5	Aquaculture & Fisheries	Paper-10	Environmental & Quantitative Biology
Semester- III		Semester- IV	
Paper-11	Animal Bio- Chemistry	Paper-12	Any one of the following: i. Limnology & Fisheries ii. Entomology iii. Concepts in Parasitology iv. Genetics & Molecular Cytogenetics v. Stress and Reproductive Physiology

**THRUST AREAS:** Fish & Fisheries, Cell & Molecular Biology, Entomology, Parasitology and Reproductive Physiology.

**PLACEMENTS:** At present the department is coordinating with the Central Placement Cell, Panjab University for placement of students of the department. However, the department is exploring the possibilities for placement of students at graduate, post graduate and post-doctoral levels.

**ALUMNI RELATIONS:** The department also has an Alumni Association and a Zoological Society. Alumni from this department occupy important positions in academic and administrative areas. The faculty and students are members of the society which caters to academic and extra-curricular needs of its members.

## UNIVERSITY INSTITUTE OF FASHION TECHNOLOGY AND VOCATIONAL DEVELOPMENT

### ABOUT THE INSTITUTE

University Institute of Fashion Technology and Vocational Development (UIFT&VD) is an in-Campus Institute, established by the Panjab University, Chandigarh in 2007 as a commitment to carry forward its goal of providing trained professionals for the fast growing fashion, apparel, and textile industry in the region in particular and the country in general. UIFT&VD offers a prestigious Five Year Integrated B.Sc. & M.Sc. Degree in Fashion and Lifestyle Technology. The programme laid out in a semester system focuses on self sustaining education and training in fashion and lifestyle technology. First three years of the course comprise of Foundation and Core Studies of which sixth semester entails Industrial Training with an option to undertake an Industry or a Design Project. The students are awarded a B.Sc. Degree in Fashion & Lifestyle Technology on the completion of the course. With showcasing a Design Collection and having an insight of the Retail Business of Branded Fashion the course prepares the students for decent earning and self employment.

Two years spent in M.Sc. Fashion & Lifestyle Technology have the students take up Across -Country visits for Craft Documentation. They undergo Extensive Specialized Research followed by Seminars and Presentations. Also an intensive study related to Organization and Management Skills required to run a Fashion and Lifestyle Business further prepares the students to find their niche' in the work sphere.



Highly trained and experienced faculty involved in giving thorough theoretical and practical knowledge inputs along with assistance rendered to lead the students in task based studies helps the young learners to hone their talent to face the challenging requirements of the Fashion Industry.

To move into the global mainstream of intense economic competition and to reckon with requirement of the Fashion Industry of India in totality, the Department liaises with fashion related organizations for guiding the students in handling latest technology. There is regular interaction with experts at Design Studios, Production Houses, Distribution Centers and Retail Establishments as well as the Industry to form a vital bridge between University Institute of Fashion Technology and the larger community. With an MoU with Nottingham Trent University, U.K. a series of exchanges have begun, giving rise to cross cultural teaching and learning process

The department offers state of the art equipment for hands on experience of the students. A proposed Resource Centre and an Amphitheatre shall take the Institute to the next level in terms of infrastructural facilities.

#### FACULTY

Designation	Name	Field of Research Specialization
Professor	Swarnjit Kaur <b>(Co-ordinator)</b>	Globalization & Human Rights
Assistant Professors	Prabhdip Brar Rita Kant Anu H. Gupta	Apparel Design, Art History & Fine Arts Clothing & Textiles Clothing & Textiles

#### COURSE OFFERED (SEMESTER SYSTEM)

Course	Seats	Duration	Eligibility*	Admission Criteria
B.Sc	46+6 NRI	3 Years	Passed 10+2 Examination with atleast 50% marks in aggregate from CBSE or any other recognized Board.	Based on Aptitude Test** Aptitude Test: 60% Academics: 20% Preference Criteria: 10% Interview: 10%
M.Sc	46+6 NRI	2 Years	Passed B.Sc. Fashion & Lifestyle Technology from UIFT, PU. <b>Lateral Entry:</b> Lateral Entry will be allowed in case any seats are left vacant. Eligibility is as under :- Passed B.Sc. (Fashion Designing) examination with at least 50% marks in aggregate from PU, or an examination from any other university recognized as equivalent thereto.	Based on Aptitude Test*** Aptitude Test: 45% Academics: 40% Group Discussion: 05% Interview: 10%
Ph.D	Subject to availability	3-6 Years	See M.Phil/Ph.D Prospectus 2017	

\* 5% Concession admissible in eligibility marks to SC/ST/BC/PwD Candidates.

\*\* **For B.Sc.** : Aptitude test will comprise of (a) General Ability Test : There will be a written test for analytical reasoning, quantitative aptitude, communication skills in English, General Knowledge and current affairs. (b) Creative Ability Test : There will be a practical test of creative skill, freehand drawing, sketching and development of a 3D model for any given theme (material list will be provided in advance so that the candidate can bring their own material for the test). Candidates who have studied Fashion Design / Fine arts subjects in 10+2 will be given 10% weightage in the total marks scored. Candidate must score at least 50% marks in aggregate (Qualifying exam + Aptitude Test + Preference Criteria + Interview).

\*\*\* **For M.Sc.** : Aptitude test will comprise of written test to evaluate general ability and subject knowledge. Creative Ability Test : Material list will be provided in advance so that the candidates can bring their own material for the test. Group Discussion will be on the topics related to Fashion and Lifestyle Technology.  
Candidate must score at least 50% marks in aggregate (Qualifying exam + Aptitude Test + Preference Criteria + Interview).

**TITLES OF SYLLABI** (Detailed syllabus available at <http://puhcd.ac.in/syllabus.php>)

<b>B.Sc.</b>	<b>Semester-I</b>	<b>Semester -II</b>
Paper-1	English-I	Paper-1 English-II
Paper-2	Fabric Technology-I (Theory)	Paper-2 Fabric Technology-II (Practical)
Paper-3	Fashion Studies – I (Theory)	Paper-3 Visual Design -II (Practical)
Paper-4	Visual Design -I (Practical)	Paper-4 Fashion Illustration -II (Practical)
Paper-5	Fashion Illustration-I (Practical)	Paper-5 Pattern Development-I (Practical)
Paper-6	Introduction to Sewing Techniques (Practical)	Paper-6 Sewing Techniques (Practical)
Paper-7	Computer Graphics-I (Practical)	Paper-7 Computer Graphics -II (Practical)
	Lifestyle Management I	Lifestyle Management II
	<b>Semester-III</b>	<b>Semester-IV</b>
Paper-1	English-III	Paper-1 English-IV
Paper-2	History of Indian Costumes (Theory)	Paper-2 History of World Costumes (Theory)
Paper-3	Fabric Technology –III (Theory)	Paper-3 Traditional Indian Textiles and Embroideries (Practical)
Paper-4	Project Based Fashion Studies (Practical)	Paper-4 Fabric Technology IV (Practical)
Paper-5	Design Process –I (Practical)	Paper-5 Design Process II (Practical)
Paper-6	Fine Arts & Fashion Illustration –III (Practical)	Paper-6 Fine Arts & Fashion Illustration IV (Practical)
Paper-7	Advance Pattern Development(Practical)	Paper-7 Advanced Pattern Development and Draping (Practical)
Paper 8	Garment Construction Technology –I (Practical)	Paper 8 Garment Construction Technology II (Practical)
Paper 9	Computer Graphics –III (Practical)	Paper 9 Computer Graphics IV (Practical)
	Lifestyle Management III	Lifestyle Management IV
	<b>Semester-V</b>	<b>Sr. No. Semester-VI</b>
Paper-1	English-V	Paper-1 English-VI
Paper-2	Fundamentals of Marketing (Th.)	Paper-2 Apparel & Textile Merchandising (Th.)
Paper-3	Communication Through Fashion Journalism (Th.)	Paper-3 Personality & Clothing (Th.)
Paper-4	Basics of Weaving Technology (Pr.)	Paper-4 Fashion Illustration & Design Collection VI (Pr.)
Paper-5	Basics of Knitting Technology (Pr.)	Paper-5 Pattern Development V (Pr.)
Paper-6	Fine Arts & Fashion Illustration V (Pr.)	Paper-6 Commercial Clothing II (Pr.)
Paper-7	Pattern Development IV (Pr.)	Paper-7 Computer Graphics VI (Pr.)
Paper-8	Commercial Clothing I (Pr.)	Paper-8 Fashion Photography (Pr.)
Paper-9	Computer Graphics V (Pr.)	Paper-9 Portfolio Making (Pr.)
	Lifestyle Management V	Lifestyle Management VI
<b>M.Sc.</b>		
	<b>Semester-I</b>	<b>Semester-II</b>
Paper-1	Fashion Retailing & Merchandising I (Th.)	Paper-1 Fashion Retailing and Merchandising II (Th.)
Paper-2	CAD Fashion Studio I (Pr.)	Paper-2 Quality Management (Th.)
Paper-3	Textile Testing (Th.)	Paper-3 CAD Fashion Studio II (Pr.)
Paper-4	Textile Testing (Pr.)	Paper-4 Textile Chemistry (Th.)
Paper-5	*Apparel Core (kids wear) (Pr.)	Paper-5 Textile Chemistry (Pr.)
	Design Development	
	Pattern Development	
	Product Development	
Paper-6	Craft Survey & Documentation (Pr.)	Paper-6 *Apparel Core (Women’s wear) (Pr.)
		Design Development
		Pattern Development
		Product Development
	Lifestyle Management VII	Lifestyle Management VIII

Semester-III		Semester-IV	
Paper-1	Research Methods (Th.)	Paper-1	Industrial Management (Th.)
Paper-2	Statistics (Th.)	Paper-2	Entrepreneurship Development (Th.)
Paper-3	CAD Fashion Studio-III (Pr.)	Paper-3	Advanced Knitting Technology (Pr.)
Paper-4	Advanced Weaving Technology (Pr.)	Paper-4	Port Folio Development (Pr.)
Paper-5	**Apparel Core (Men's Wear) (Pr.)	Paper-5	*Design Collection
	Design Development		Design Collection
	Pattern Development		Pattern Developmen
	Product Development		Product Development OR
			Research Project OR
			Craft Based project (Pr.)
	Lifestyle Management IX		Lifestyle Management X

**THRUST AREAS:** Product & Line Development, Research Projects, Fashion Event Management, Surface Design, CAD, Textile Technology, Visual Merchandizing, Fashion Forecasting and Media Reporting.

**PLACEMENTS:** The Department continues to support students by arranging for on-campus and off-campus placements in reputed organizations. Many students opt for self-employment and spring up as successful entrepreneurs. The students who opt for placements are helped in securing good jobs in different organizations of their own choices.

**ALUMNI RELATION:** Alumni from this department have been suitably employed in academics, industry and many have been able to establish themselves as successful entrepreneurs. They are regularly supporting the department in terms of suggestions from their industrial experience. Many of them visit the department and address students in order to prepare them for their future and help in arranging industrial exposure, training and placements.

## XI. Multi-Faculty Departments

### DEPARTMENT OF EVENING STUDIES

#### MULTI DISCIPLINARY RESEARCH CENTRE

##### ABOUT THE DEPARTMENT

The Department of Evening Studies-Multi Disciplinary Research Centre provides a unique opportunity of learning through interactive teaching to the women, self employed as well as in-service men.

The Department, with its illustrious faculty, functions as a centre for interdisciplinary pedagogy and research and caters to the academic and research oriented aspirations of the undergraduate and postgraduate students.

The DES-MDRC Library is air-conditioned, equipped with digitized catalogue. The Library has, at present approx. 20,000 books.

The DES-MDRC promotes students' participation in cultural activities and organizes national seminars/extension lectures for the benefit of students and faculty. The Department has an air-conditioned state -of -the -art "Principal P.L. Anand Auditorium".

##### FACULTY

Designation	Name	Field of Research Specialization
Professor (Re-Employed)	N.K. Sehgal	Accounting and Law
	Indu Tewari	Modern Indian History
	I.D. Gaur	Punjab History & Culture
	S.S. Gill	American Novel
Professors	Gurpal Singh ( <b>Chairperson</b> )	Literary theory, linguistics and Punjabi Fiction
	Sudhir Kumar	Comparative Literature & Literary Theory
	Keshav Malhotra	Banking and Finance
	Harsukhjit Kaur	Indian Political System and Women studies
	Mahesh Sharma	Early Medieval Indian History

Associate Professors	Mohammed Khalid Gauri Sharma Neeraj Jain Bhupinder Kaur Rehana Parveen Vandana Maini Neeraj Sharma Suman Makkar G.C. Chauhan Gurpreet Kaur Chander Mohan Archana Keerti Vardhan Amandeep Amandeep Singh Kusum Simran Kaur	Geopolitics of Indian Ocean Medieval Indian History Fiction (Modern Novel) Modern Punjabi Poetry Tanz-o-Mizah Nigari Dr. Safiq-ur-Rehman Ek Mutaliya Organizational Behavior Rural Development International Economics and Macro Economics Ancient Indian History Punjabi Culture & Folklore Punjabi Fiction American Literature Combinatorial Topology Dalit Literature, American Literature and Indian Writing NIL Indian Literature Micro Economics
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**COURSES OFFERED (SEMESTER SYSTEM)**

Course	Seats	Duration	Eligibility*	Admission Criteria
B.A.	200	3 Years	a) Passed +2 or equivalent examination (or has compartment with at least 20% marks in the compartment subject) conducted by any Board/Body/Council/University in India, provided the candidate has passed English at +2 examination. In cases, where passing in English is not necessary according to the regulations of certain Boards/Bodies/ Councils / Universities in India, the admission of the candidate shall be provisional and will be confirmed only after he /she has cleared the subject of English as a deficient subject from the parent Board/Body/Council /University in two consecutive chances subsequent to his /her admission. b) Students who have qualified at least 50% of the total no. of papers in B.A. Semester-I & II are eligible to seek admission to B.A. Semester-III. c) A candidate who has passed his 50% papers upto 4 <sup>th</sup> Semester shall be eligible to seek admission to B.A. 5 <sup>th</sup> Semester.	Based on Merit
B.Com.	70	3 Years	Passed +2 or equivalent examination (conducted by a recognized Board/Council/University) with (A) Three of the following subjects securing at least 45% marks in the aggregate. (i) Commerce (or theory of commerce or foundation course in commerce), (ii) Accountancy (or book keeping and accountancy), (iii) Economics, (iv) Business Organisation (or Business Management or Theory and Practice of Management), (v) Insurance (or General Insurance or Life Insurance), (vi) Banking and Trade, (vii) Commercial Geography, (viii) Office Management and Secretarial Practice (or Office Organization and Management), (ix) Mercantile	Based on online Centralized B.Com Admissions

			<p>Law (or any Company Law), Auditing, (x) Typewriting and Stenography/Computers (for typewriting)</p> <p>(B) Two of the above mentioned subjects securing at least 50% marks in the aggregate, provided the candidate has passed English at +2 examination. In cases where passing in English is not necessary according to the regulations of certain Boards/Bodies/Councils/Universities in India, the admission of the candidate shall be provisional and will be confirmed only after he /she has cleared the subject of English as a deficient subject from the parent Board/Body/Council/University in two consecutive chances subsequent to his/her admission.</p>	
M.A. English	68	2 Years	<p>Passed one of the following qualifications from a recognized University/Institute: Bachelor's Degree obtaining at least 45% marks in English Elective or English Compulsory subject OR Bachelor's Degree in any faculty obtaining 50% marks in the aggregate. OR B.A. with (Hons.) in English. OR B.A./B.Sc. with (Hons.) in subject other than English obtaining at least 50% marks in aggregate. OR Masters Degree in any other subject with 50% marks in aggregate.</p>	Based on Merit
M.A. Economics	68	2 Years	<p>Bachelor's degree obtaining at least 45% marks in Economics or 50% marks in aggregate OR B.A. with Honours in Economics or B.Sc.(Hons.) OR Master's degree examination in any other subject. The Weightage for the subject Economics will be given to those who have studied economics as one of their subject at undergraduate level or who have done B.Com. from Panjab University or any other recognized University.</p>	Based on Merit
M.A. Punjabi	68	2 Years	<p>Passed one of the following examinations from a recognized University: Bachelor's Degree obtaining at least 45% marks in the subject of Post-graduate Course or 50% marks in aggregate provided the candidate has passed Punjabi as an elective or literature subject. OR B.A. with (Hons) in Punjabi or B.Sc.(Hons.) Course OR Master's degree examination in any other subject provided the candidate has studied Punjabi (compulsory) at graduate level</p>	Based on Merit
M.A. Pol. Sci.	68	2 Years	<p>Bachelor's Degree obtaining at least 45% marks in the subject of Political Science, or 50% marks in the aggregate OR B.A. with 45% marks in any social science discipline OR B.A. with (Hons) in the subject of Political Science or B.Sc. (Hons.) OR Master's degree examination in any other subject.</p>	Based on Merit

M.A. History	68	2 Years	Passed one of the following examinations from a recognized University: Bachelor's degree in any faculty with atleast 50% marks in the aggregate. OR B.A/B.Sc. pass in full subjects obtaining atleast 45% marks in the subject of History. OR B.A with Hons. in History. OR Master's degree in another subject/faculty.	Based on Merit
Ph.D in English Economics Political Sci. Punjabi History	Eng=25 Eco=05 PoL=13 Pbi=16 His=15	3-6 Years	See M.Phil/Ph.D. Prospectus 2017	
*5 % Concession is admissible in eligibility requirement to SC/ST/BC/PwD Candidates.				

**TITLE OF SYLLABI:** (Detailed syllabi available at <http://puchd.ac.in/syllabus.php>)

Subject Combinations for B. A.

- Compulsory subjects: (i) Punjabi or History and Culture of Punjab\* (ii) English
- One subject from each of the three groups i.e. Group- A (Political Science, Public Administration, Police Administration), Group-B(Sociology, Sanskrit, History, Mathematics) & Group-C (Economics, English Elective, Urdu Elective, Punjabi Elective, Hindi Elective)
- Environment and road safety education.

Subject combinations opted by students in the 1st Semester will remain same throughout the entire six Semesters of B.A. Course.

#### B.A.

Name of Paper	Semester-I	Semester-II	Semester -III	Semester -IV	Semester-V	Semester-VI
Political Science	Political Theory-I	Political Theory-II	Indian government and politics	Indian politics	Comparative political systems (Uk and Usa)	International politics : theory and practice
Public Administration	Administrative Theory	Indian Administration	Personnel administration (with special reference to India)	Financial administration (with special reference to India)	Local government (with special reference to Punjab)	Development administration (with special reference to Punjab)
Police Administration	Police Administration in India	Constitution of India	Police Personnel Administration	Law and Order Administration	Development administration (with special reference to Punjab)	Law and Police Administration
Sociology	Fundamentals of Sociology	Sociology Stratification	Social Structure And Social Change	Social Institutions	Society in India	Disorganisation and emerging problems
Sanskrit	Sanskrit	Sanskrit	BhagvadGeeta and Vyakaran	Natak and Vyakaran	Upnishad, Ramayan , Shabdavali and Vyaakaran	LokikKavya , Itihaas , Nibandh and vyakaran
History	History of india upto 1200 a.d.	History of india 1200-1750 a.d.	History of india, 1750-1964 a.d.	History of the punjab, 1469-1849 a.d.	History of punjab 1849-1966	World history 18th-20th century
Mathematics	Plane geometry	Solid geometry	Advanced calculus-i	Advanced calculus-ii	Analysis - i	Analysis - ii
Economics	Micro economics	Macro economics	Public finance and international economics	Quantitative methods	Economics of development	Indian economy

English Elective Urdu Elective	English Elective Essay and Composition:	English Elective Prose and Poetry	English Elective Prose and Poetry	English Elective Novel: EkChadarMaili Si	English Elective Urdu Elective	English Elective Short story and literary history of Urdu literature
Punjabi Elective Hindi Elective	Punjabi Elective Hindi Elective	Punjabi Elective Hindi Elective	Punjabi Elective Hindi Elective	Punjabi Elective Hindi Elective	Punjabi Elective Hindi Elective	Punjabi Elective Hindi Elective
<b>B.Com.</b>						
<b>Semester-I</b>	<b>Semester-II</b>	<b>Semester -III</b>	<b>Semester -IV</b>	<b>Semester-V</b>	<b>Semester-VI</b>	
Punjabi Or History and culture of Punjab	Punjabi Or History and culture of Punjab	Interdisciplinary Issues in indian commerce	Interdisciplinary Security analysis and portfolio management	Income tax law	Direct tax laws	
English and business communication	English and business communication	Cost Accounting	Advanced Accounting	Management Accounting	Financial Management	
Interdiscip-Linary Psychology for managers	Interdiscip-linary E-commerce	Company law	Auditing and secretarial practice	Indian economy	Issues in financial reporting	
Business economics-i	Business economics-ii	Business mathematics and statistics	Cost management	Production and operation management	Social and business ethics	
Principles of financial accounting	Corporate accounting	Banking and insurance	Marketing management	Entrepreneurship and small business	Operation research	
Commercial laws	Business laws	Indirect tax laws	Quantitative techniques and method	Financial markets and services	Sectoral aspects of Indian economy	
Principles and practices of management	Human resource management					

## Environment and road safety education\*

	<b>Semester-I</b>	<b>Semester-II</b>	<b>Semester-III</b>	<b>Semester-IV</b>
Paper-1	Literary Criticism I	Literary Criticism II	Literary Theory-I	Literary Theory-II
Paper-2	British Poetry	British Poetry II	Indian Writing in English	Indian Writing in Translation
Paper-3	British Drama I	British Drama II	American Literature-I (opt. iii)	American Literature-II (opt. iii)
Paper-4	British Fiction I	British Fiction II	World Poetry/Novel in Translation(opt.iii)	World Drama in Translation (opt. iii)
<b>M.A. (Economics )</b>				
	<b>Semester-I</b>	<b>Semester-II</b>	<b>Semester-III</b>	<b>Semester-IV</b>
Paper-1	Micro Economics-I	Micro Economics-II	Macro Economics-I	Macro Economics-II
Paper-2	Contemporary Issue in Indian Economy-I	Contemporary Issue in Indian Economy-II	Economics of Growth and Development-I	Economics of Growth and Development-II
Paper-3	Quantitative Methods-I	Quantitative Methods-II	any two of the option for Paper-III & IV	any two of the option for Paper-III & IV
Paper-4	Economics of Public Finance	International Economics	opt (i) :Economics of Agriculture-I opt(ii) :Economics of Industry-I	opt(i): Economics of Agriculture-II opt(ii): Economics of Industry-II
<b>M.A. (Punjabi )</b>				
	<b>Semester-I</b>	<b>Semester-II</b>	<b>Semester-III</b>	<b>Semester-IV</b>
Paper-1	Madhkali Punjabi Sahit Da Itihis	Adhunik Punjabi Sahit da Ithas	BhashaVigyan ate Punjabi Bhasha	BhashaVigyan ate Gurmukhi Lipi
Paper-2	Sahit Sidhantte Punjabi Alochana	AdhunikPachmiKav Sastra te Vivharik Kavi Shastra	Sabhyacharlokdhara ate Punjabi sabhyachar	Punjabi Lokdhara ate LokSahit

Paper-3	Punjabi GurmatKaav	Madhkali Punjabi Kaa	AdhunikPunjabiKavita-I	Adhunik Punjabi Kavita-II
Paper-4	Punjabi Novel	Punjabi Novel da Adhiyan	Punjabi Natak ate Rangmanch da Adhiyan-I	Punjabi Natak ate Rangmanch da Adhiyan
<b>M.A. (Political Science)</b>				
	<b>Semester-I</b>	<b>Semester-II</b>	<b>Semester-III</b>	<b>Semester-IV</b>
Paper-1	Western Political Thought-I	Western Political Thought-II	Indian Political Thought-I	Indian Political Thought-II
Paper-2	Key Concepts in Political Analysis	Comparative Politics-I : Understanding Advanced Industrial Societies	Comparative Political System with Special reference to USA, UK, China & Switzerland	Foreign Policy of India
Paper-3	Indian Political System	Indian Politics	International Organization (opt.a)	Parties and Electoral Politics in India (opt. A)
Paper-4	International Relation: An Historical overview	Approaches to the study of International Relation	Public Administration (opt.h)	Introducing Federalism (opt.e)
<b>M.A. (History)</b>				
	<b>Semester-I</b>	<b>Semester-II</b>	<b>Semester-III</b>	<b>Semester-IV</b>
Paper-1	Ancient India: An Overview	Agrarian Economy of Ancient India	Punjab in the Nineteenth Century	Punjab in Twentieth Century
Paper-2	Medieval India: Political Processes	Punjab in the Eighteenth Century	National Movement in India (1858-1947) (opt.i)	History & Historical Method Opt. (ii)
Paper-3	Modern India: Political Processes	USA (1820-1973)	Constitutional development in Modern India (1773-1947) (opt.iii)	Budhism in India Opt.(xi)
Paper-4	The Punjab (Mid-Fifteenth to Seventeenth Centuries)	Modern World (1500-1900)	Sacred Centres in Indian Civilization Opt.(x)	Islamic Traditions of Medieval India Opt. (xii)

**THRUST AREAS:** Interdisciplinary Studies in languages, Literatures and social sciences.

**PLACEMENTS:** The Department has a placement cell, which help the students, those who are in the final semesters of M.A./ B.Com and B.A, in getting good jobs.

**ALUMNI RELATIONS:** The Department has produced a number of distinguished persons and is proud of its alumni. To name a few, Prof. G. K. Chadha, former Vice Chancellor of JNU and presently on Advisory Panel of the Prime Minister of India; Prof. S. K. Gupta, former Vice Chancellor, HP University Shimla; S. Partap Singh, Secretary, Punjab Vidhan Sabha; Shri Swaraj Kaushal, former Governor, Mizoram; Shri K. R. Punia, IAS; S. Jasbir Singh Bir, M.D., CITCO; Shri K. A. P. Sinha, IAS and many others in the Indian Civil and Police Services have been students of this department. A large number of civil servants in Punjab and Chandigarh, Bank officers (holding senior positions now), principals of many colleges were students of this Department at one time.

## UNIVERSITY SCHOOL OF OPEN LEARNING (USOL)

### ABOUT USOL

The University School of Open Learning, formerly the Department of Correspondence Studies, was established in 1971. Over the years, USOL has grown and emerged as one of the premier institutes of distance and open learning in India.

This multi-faculty, multidisciplinary school offers a wide range of courses. Besides offering traditional courses at



undergraduate and post-graduate levels, USOL offers an array of professional, innovative and value-added courses to cater to the emerging societal needs. All the courses being offered by USOL have been duly approved by the Distance Education Bureau (UGC) and the learners enrolled in these courses undertake the same curriculum and examination as their counterparts in 'regular' departments/colleges of the Panjab University.

To give a satisfying learning experience to its over 20,000 learners USOL has an effective support system. USOL instructional process primarily comprises 'printed study material' in the Self-Learning Mode prepared by subject experts. The printed material is supplemented by a series of Personal Contact Programmes and audio talks on selected topics developed by the Educational Media Centre of USOL. Besides, USOL has well equipped computer-lab and labs for giving hands-on experience to the learners enrolled in Geography, Psychology, Defence Studies and Education. The USOL has a well stocked library (over 100,000 books) with computer facility and Book Bank facility. It also has a placement and guidance cell. Keeping abreast of the latest developments, USOL has also initiated the dissemination of study material online. Above all, the biggest strength of USOL is its highly qualified and committed faculty which is actively involved in both teaching and research.

#### **FACULTY**

<b>Designation</b>	<b>Name</b>	<b>Field of research specialization</b>
<b>Commerce</b>		
Professors	Lalit k. Bansal	Accounting and finance financial service
	Geeta Mangla Bansal	Hrm, o.b., & strategic management
Assistant Professors	J.S. Rathore	Marketing mgt. (domestic & international), hrm, general mgt., mktg.
	Rajni Chauhan (Contract basis)	Finance & accounting
<b>Defence Studies</b>		
Professor	Meena Dutta	Conflict resolution and defence
<b>Economics</b>		
Professors	Reena Bhasin	Economics of growth and dev. & quantitative methods
	Harsh Gandhar	Economics of education, public expenditure/ finance
Associate Professor	Sangeeta Malhotra	Economics of agriculture, public finance
<b>Education</b>		
Professor	Kuldip Puri	Educational policy, educational philosophy & sociology
Assistant Professors	Manju Gera	Educational technology, research methodology
	Mamta Garg	Distance education, teacher education & quality Concerns in education
	Ram Mehar	Educational technology, educational research & statistics
	Supreet Kaur	Guidance & counselling career psychology and teacher education
	Kuljeet Kaur	Guidance & counselling educational psychology language teaching & literature
	Jeesu Jaskanwar Singh	Educational technology, guidance & counselling
<b>English</b>		
Professor	Praveen Sharda	Critical theory, stylistics, dalit literature
Assistant Professors	Rajesh kumar Jaiswal	Cultural studies, critical theory, indian writing in english & applied linguistics
	Ravinder Kaur	British fiction, american literature, dalit literature, new media studies
<b>Geography</b>		
Professor	Neelam Grover	Rural settlement geography
Associate Professor	Harveen Pannu	Agricultural geography
Assistant Professor	Sucha Singh	Agricultural geography, population geography
<b>Hindi</b>		
Professors	Yojna Rawat <b>(Chairperson)</b>	Modern hindi literature
	Neeru	Modern hindi literature
<b>History</b>		
Professors	Manju Malhotra	Modern punjab, gender studies and national movement in india
	Sheena Pall	Socio-cultural history of modern punjab

**Philosophy**

Tutor-cum-curator Sudhir K. Baweja Indian aesthetics, vivekananda studies, value education and leadership studies

**Mathematics**

Coordinator Dr. Vikash Bisht

**Political science**

Professors S.k. Shukla International politics & state politics  
Emanuel Nahar Minority dalit politics & foreign policy

Assistant Professors Kamla Human rights, indian political system

**Psychology**

Dr Kuljeet Kaur

**Punjabi**

Professor Jaspal Kaur Kaang Medieval punjabi literature, gurmat literature & sahit, punjabi fiction

Assistant Professors Parveen Kumar Modern punjabi poetry  
Harmail Singh History of punjabi literature

**Public administration**

Professors Swinder Singh Administrative theory, local governance & law  
Vijay Rattan Development, administration, local governance

Assistant Professors Anil Kumar Personal administration  
Purva Mishra Urban local governance & e-governance

**Sanskrit**

Professor V.K. Alankar

**Sociology**

Professor Madhurima Mahajan Sociology of family & gender studies, gerontology  
sociology of violence, crime disability studies  
Rajni Sociology of education, development & urban studies  
Reena Rani Sociological dimensions of dev., perspectives & concept

**Statistics**

Professor Ravi k. Mahajan Applied statistics, psychometric, distance education

Assistant Professor Richa Sharma Survival analysis

**COURSES OFFERED**

For admission to various courses in USOL, separate Prospectus will be available online at its website [www.usol.pu.ac.in](http://www.usol.pu.ac.in). Admission notice for following courses will be advertised in the leading newspapers in the month of June/July.

**I. Under Graduate Courses (Semester System)**

1. Bachelor of Arts (B.A.)
2. Bachelor of Commerce (B.Com.)
3. Bachelor of Library & Information Science (B.Lib.) (One Year Course)

**II Diploma Courses (Semester System)**

1. Postgraduate Diploma in Computer Applications (PGDCA)
2. Postgraduate Diploma in Human Rights & Duties (PGDHR & D)
3. Postgraduate Diploma in Health, Family Welfare and Population Education (PGDHF&PE)
4. Postgraduate Diploma in Library Automation and Networking (PGDLAN)
5. Postgraduate Diploma in Mass Communication (PGDMC)
6. Postgraduate Diploma in Statistics (PGDSt.)

**III. Certificate Courses (Annual System)**

1. Certificate Course in Vivekananda Studies
2. Certificate Course in Women Studies

**IV. Post-graduate Courses (Semester System)****1. Masters of Arts (M.A.)**

- |  |                             |
|--|-----------------------------|
| (i) English  | (v) History                 |
| (ii) Hindi   | (vi) Political Science      |
| (iii) Punjabi  | (vii) Public Administration |
| (iv) Economics   | (viii) Sociology            |
| (ix) Education (introducing from academic session 2017-18) |                             |

2. Master of Commerce (M.Com.)

#### V. Professional Courses

1. M.B.A. (Executive) (Seats = 500)

2. Bachelor of Education (Seats = 800)

#### Thrust Areas:

The focus is on Multidisciplinary development through affordable, accessible and inclusive non-formal education system. Along with that impetus is given to professional education to meet needs and demands of employment sectors by organizing activities like personality development workshops, skill training programmes and academia industry interface.

Emphasis is laid on strengthening teacher-student interface, reaching students via electronic media, upgradation of content, better resource mobilization and total quality management.

### PANJAB UNIVERSITY REGIONAL CENTRE, SRI MUKTSAR SAHIB

#### ABOUT THE CENTRE

The Panjab University Regional Centre was started in 1998 realizing the responsibility towards the society in general and the development of backward area in particular, Panjab Government and Panjab University decided to start a Regional Centre at Muktsar which is an ideal place for establishment of such regional centre.

#### FACULTY

DESIGNATION	NAME	FIELD OF RESEARCH SPECIALIZATION
Professor Director	P.S. Dhingra	Panjabi Language and linguistics
Professors	J.S Dhillon	Afro American Litration, Eco Criticism, Indian Writing in English
	Baljinder Kaur	Poetry& fiction
	Manish Kumar	Pattern Recognition, Character Recognition
Associate Professor	D.K. Singh	Rural movement in india
	Sujit Lahiry	Inter. Relation Political science, smith Asian studies movement politics
	Gurjaswinder Singh	Economics of Agriculture/Macroeconomics
	Nisha Jain	Indian Political System and gender issues
	Vinod Kumar	Money Banking Public finance, FDI
	Darshan Singh	Ling.the& poetry
	Rajesh Kumar Mishra	Indian writing in English
	Gurpal Singh	Criminal laws
	Mohinder Kumar	Java, Unix Programming DBMS
	Inderjot Kaur	Child writs & Liabilities'
	Hardip Singh	

#### COURSES OFFERED (SEMESTER SYSTEM)

Course	Seats	Duration	Eligibility*	Admission Criteria
M.A. English	46	2 Years	Passed one of the following qualifications from a recognized University/Institute: Bachelor's Degree obtaining at least 45% marks in English Elective or English Compulsory subject OR Bachelor's Degree in any faculty obtaining 50% marks in the aggregate. OR B.A. with (Hons.) in English. OR B.A./B.Sc. with (Hons.) in subject other than English obtaining at least 50% marks in aggregate. OR Masters Degree in any other subject with 50% marks in aggregate.	Based on Merit
M.A.	46	2 Years	Bachelor's degree obtaining at least 45% marks in	Based on Merit

Economics			Economics or 50% marks in aggregate. OR B.A. with Honours in Economics or B.Sc.(Hons.). OR Master's degree examination in any other subject.	
M.A. Punjabi	46	2 Years	Bachelor's Degree obtaining at least 45% marks in the subject of Post-graduate Course or 50% marks in aggregate provided the candidate has passed Punjabi as an elective or literature subject. OR B.A. with (Hons) in Punjabi or B.Sc.(Hons.) Course OR Master's degree examination in any other subject provided the candidate has studied Punjabi (compulsory) at graduate level	Based on Merit
M.A. Pol. Sci.	46	2 Years	Bachelor's Degree obtaining at least 45% marks in the subject of Political Science, or 50% marks in the aggregate. OR B.A. with 45% marks in any social science discipline. OR B.A. with (Hons) in the subject of Political Science or B.Sc.(Hons.). OR Master's degree examination in any other subject.	Based on Merit
LL.B.***	60	3 Years	i) Bachelor's/Master's Degree in any discipline with at least 45% marks in aggregate from Panjab University or any other University recognized by Bar Council of India ii) In case of a candidate having a Bachelor's degree of this University or any other University recognized by the Syndicate, through Modern Indian Languages (Hindi or Urdu or Punjabi (Gurmukhi Script) and/ or in a Classical Language (Sanskrit or Persian or Arabic) the aggregate of 45% marks shall be calculated by taking into account the percentage of aggregate marks that he had secured at the language examination, excluding the marks for additional optional paper, English and the elective subject taken together.	Based PU-CET(PG) Academics:50% PU-CET(PG):50%
MCA	20+2** +3NRI	3 Years	A recognized first degree of minimum three years duration in any discipline with at least 50% marks and with Mathematics at 10+2 or at graduation level (all three years) OR B.C.A. from Panjab University with 50% marks OR Any examination recognized by the Panjab University Chandigarh as equivalent to any of the above examination (i) or (ii)	Based PU-CET(PG) Academics:50% PU-CET(PG):50%
M.Phil (Punjabi)	15	1 Year	See M.Phil/Ph.D.Prospectus 2017	
M.Phil (Pol.Sci.)	10	1 Year	See M.Phil/Ph.D.Prospectus 2017	

\*5% Concession is admissible in eligibility marks to SC/ST/BC/PwD Candidates

\*\* For Candidates who have studied Computer as one of the subjects for three years/or that subject as a full course at undergraduate level.

**Note-1:** The applicants having a compartment in their qualifying examination shall not be eligible to join LL.B. course irrespective of their clearing the entrance test.

**Note-2:** The applicants who have obtained 10+2 or Graduation/Post Graduation through open universities system directly without having any basic qualifications for prosecuting such studies be not admitted in law courses.

**Note-3:** No candidate will be admitted to the LL.B. course having any Degree inconsistent with the University Grants Commission Regulations and also Bar Council of India, Rules of Legal Education 2008.

**Note 4 :** The concession by way of additional seat for Only (Single) Girl Child and for Cancer/Aids Patient is not applicable to the students falling under regulatory agencies such as MCI, DCI, BCI and NCTE. As the LL.B. course is regulated by Bar Council of India, this concession is not applicable to the LL.B. course. X=Academic Marks i.e. 20 %)

\*\*\* Same Rules/Regulations/Eligibility for admission to LL.B. is followed by Department of Laws, PU, and PURC, Muktsar, PURC Hoshiarpur and PURC Ludhiana.

**TITLE OF SYLLABI**(Detailed syllabi available at <http://puchd.ac.in/syllabus.php>)

**LL.B.**

<b>Semester -I</b>		<b>Semester- II</b>	
Paper- 1	Jurisprudence-I	Paper- 1	Jurisprudence II
Paper- 2	Constitutional Law I	Paper- 2	Constitutional Law II
Paper- 3	Law of Contract	Paper- 3	Special Contracts
Paper- 4	Family Law I	Paper- 4	Family Law II Paper – V International Human Rights & Public International Law
Paper- 5	Law of Torts including Motor Vehicle Accidents and Consumer Protection Laws	Paper- 5	Jurisprudence II
<b>Semester-III</b>		<b>Semester-IV</b>	
Paper- 1	Law of Crimes-I	Paper- 1	Paper –I - Law of Crimes-II
Paper- 2	Property Law	Paper- 2	Paper- II - Company Law
Paper- 3	Labour Law Option : Any two of the following	Paper- 3	Paper – III - Administrative Law
Paper- 4	Paper IV & V-(a) Law of Taxation (b) Local Self Government including Panchayat Administration (c) International Organization and Humanitarian Law (d) Penology and Victimology	Paper- 4	Paper – IV - Alternate Dispute Resolution Option : Any one of the following Paper V (a) - Information Technology Act & RTI Act
Paper- 5	Paper –I - Law of Crimes-I	Paper- 5	Paper V (b) - International Labour Organization and Labour Laws
<b>Semester-V</b>		<b>Semester-VI</b>	
Paper- 1	Paper – I - Law of Evidence	Paper- 1	Paper – I - Environmental & Wild Life Protection Laws
Paper- 2	Paper – II - Criminal Procedure Code	Paper- 2	Paper – II - Civil Procedure Code & Limitation Act
Paper- 3	Paper – III - Service Law	Paper- 3	Paper – III - Professional Ethics & Professional Accounting System
Paper- 4		Paper- 4	Paper - IV - Moot Court Exercise and Internship Option : Any one of the following:
Paper- 5		Paper- 5	Paper V (a) - Interpretation of Statute and Principle of Legislation Paper V (b) - IPR Management
<b>M.A Economics</b>			
<b>Semester -I</b>		<b>Semester -II</b>	
Paper- 1	MAECO-101 Micro Economics-I	Paper- 1	MAECO-201 Micro Economics-II
Paper- 2	MAECO-102 Contemporary Issues in Indian Economy-I	Paper- 2	MAECO-202 Contemporary Issues in Indian Economy-II

Paper-3 Paper-4 Paper-5	MAECO-103 Quantitative Methods-I MAECO-104 Economics of Public Finance	Paper-3 Paper-4 Paper-5	MAECO-203 Quantitative Methods-II MAECO-204 International Economics
<b>Semester -III</b>		<b>Semester -IV</b>	
Paper-1 Paper-2  Paper-3	MAECO-301 Macro Economics-I MAECO-302 Economics of Growth and Development-I  MAECO-303 & 304 (i) Economics of Agriculture-I s (ii) Economics of Industry-I Marks (iii) Basic Econometrics s (iv) Economics of Population OR Economics of Human Resource Development History of Economic Thought s	Paper-1 Paper-2  Paper-3	MAECO-401 Macro Economics-II s MAECO-402 Economics of Growth and Development-II Any two of the following options for Papers MAECO-403 & 404 (i) Economics of Agriculture-II (ii) Economics of Industry-II (iii) Mathematical Economics (iv) Economics of Money and Banking OR Economics of Financial Markets & Institutions (v) Advanced Econometrics
<b>M.A Punjabi</b>			
<b>MA.</b>			
<b>Semester-I</b>		<b>Semester-II</b>	
Paper-1 Paper-2  Paper-3 Paper-4  Hons. Paper-5 Hons. Paper-6	Madhkali Pbi. Sahit da Itihas Sahit Sidhant, Sanatani Kaav Shastar ate Pbi Alochna Madhkali Pbi. Kaav -I Opt (i) Gurmat ate Sufi Kaav Opt (ii) Punjabi Novel da Adhiyan Opt (i) Punjabi Kahani da Adhiyan Opt (ii)  Guru Nanak Bani - Deeragh Adhiyan Pra-alochana Ate Punjabi Purav Marxvadi Alochna da Adhyan	Paper-1 Paper-2  Paper-3 Paper-4  Hons. Paper-5 Hons. Paper-6	Adhunik Pbi. Sahit da Itihas Adhunik paschami Kav Shastar ate Viharak Alochna Madhkali Pbi. Kaav -II Opt (i) Sufi, Kissa ate Bir Kaav Opt (ii) Punjabi Novel da Adhiyan Opt (i) Punjabi ate Parvasi Punjabi Kahani da Adhian Opt (ii) Varis Shah - Deeragh Adhiyan  Uttar Marxvadi Punjabi Alochna da Adhiyan
<b>Semester-III</b>		<b>Semester-IV</b>	
Paper-1 Paper-2  Paper-3 Paper-4  Hons. Paper-5 Hons. Paper-6	Bhasha Vigyan ate Punjabi Bhasha Sabiachar, Lokdhara ate Punjabi Sabiachar Adhunik Punjabi Kavita-I Opt (i) Adhunik Punjabi Birtantank Kavita-I Opt (ii) Punjabi Natak ate Rangmanch da Adhiyan – I Opt (i) Vishaw Da Anuvadit Natak Opt (ii) Shah Husain - Deeragh Adhiyan Pakistani Punjabi Sahit	Paper-1 Paper-2  Paper-3 Paper-4  Hons. Paper-5 Hons. Paper-6	Bhasha Vigyan, Punjabi Bhasha ate Gurmukhi Lipi Punjabi Lokdhara ate Lok Sahit  Adhunik Punjabi Kavita-II Opt (i) Adhunik Birtantank Punjabi Kavita-II Opt (ii) Punjabi Natak ate Rangmanch da Adhiyan – II Opt (i) Punjabi Vich Anuvadit Vishav da Natak Opt (ii) Punjabi Vartak da Adhiyan Opt (iii) Bhai Vir Singh – Deeragh Adhiyan Parvasi Punjabi Sahit
<b>Diploma in Translation (English to Punjabi)</b>			
Paper-1 Paper-2	Principals and Problems of Translation Problems of Vocabulary and Technical Terminology	Paper-3	Practical Translation and Related Problems
<b>M.A Political Science</b>			
<b>Semester -I</b>		<b>Semester -II</b>	
Paper-1 Paper-2	Course I : Western Political Thought-I Course II : Key Concepts in Political Analysis	Paper-1 Paper-2	Course V : Western Political Thought (II) Course VI : Comparative Politics : Understanding Advanced Industrial Societies

Paper- 3	Course III : Indian Politics : Institutions at work (Compulsory)	Paper- 3	Course VII : Indian Politics : Political Processes (Compulsory)
Paper- 4	Course IV : International Relations : An Historical Overview	Paper- 4	Course VIII : Approaches to the Study of International Relations.
<b>Semester -III</b>		<b>Semester -IV</b>	
Paper- 1	Course IX : Indian Political Thought-I (Compulsory)	Paper- 1	Course XIII : Indian Political Thought-II (Compulsory)
Paper- 2	Course X : Comparative Politics-II : Understanding Developing Societies (Compulsory) Or Comparative Political Systems with special reference to USA, UK, China, Japan & Switzerland (Compulsory)	Paper- 2	Course XIV : Foreign Policy of India (Compulsory)
Paper- 3	Course XI : The candidates are required to offer any one of the following courses : Option (a) International Organization Option (b) Transnational Actors in International Politics Option (c) Politics of Development in India Option (d) Peace and Conflict Resolution Option (e) Rethinking Geopolitics : Criactical Perspectives Option (f) Theories of Development Option (g) Public International Law-I	Paper- 3	Course XV : The candidates are required to offer any one of the following courses : Option (a) Parties and Electoral Politics in India Option (b) State Politics in India Option (c) Decentralized Governance and Local Level Institutions in India Option (d) Political Sociology with special reference to India Option (e) Representing "India" : Geopolitical Imaginations Option (f) Dalit Movements and Issues in India
Paper- 4	Course XII : The candidates are required to offer any one of the following courses : Option (a) Democracy in India Option (b) Government & Politics of India's Neighbours (Pakistan, Bangladesh, Nepal and Sri Lanka). Option (c) Women and Politics in India Option (d) Rights : Ideas and Movements Option (e) Nationalism : Theory and Context Option (f) New Political Geography in Comparative Perspective Option (g) Policies and Politics of Development in India Option (h) Public Administration	Paper- 4	Course XVI : The candidates are required to offer any one of the following courses : Option (a) Feminist Political Theory Option (b) Major themes in Recent Political Philosophy Option (c) Readings in the Philosophy of Resistance and Liberation Option (d) Contemporary Debates in 20th Century Marxism Option (e) Introducing Federalism Option (f) Public International Law-II

**M.A ENGLISH**

<b>Semester -I</b>		<b>Semester -II</b>	
Paper- 1	LITERARY CRITICISM-i	Paper- 1	LITERARY CRITICISM-II
Paper- 2	BRITISH POETRY-I	Paper- 2	BRITISH POETRY-II
Paper- 3	BRITISH DRAMA-I	Paper- 3	BRITISH DRAMA-II
Paper- 4	BRITISH FICTION-I	Paper- 4	BRITISH FICTION-II
<b>Semester -III</b>		<b>Semester -IV</b>	
Paper- 1	LITERARY THEORY-I	Paper- 1	LITERARY THEORY-II
Paper- 2	INDIAN WITING ENGLISH	Paper- 2	INDIAN WITING IN TRANSLATION
Paper- 3	LINGUISTICS-I	Paper- 3	LINGUISTICS-II
Paper- 4	APPLIED LIENGUSTICS-I	Paper- 4	APPLIED LIENGUSTICS-II
<b>MCA Course (Semester System)</b>			
<b>Semester -I</b>		<b>Semester -II</b>	
Paper- 1	CS-55 Computer Fundamentals and C Programming	Paper- 1	CS-63 Data and File Structures (Using C)

Paper-2	CS-56 LINUX Operating System	Paper-2	CS-07 Accounting and Financial Management
Paper-3	CS-60 Computer Organisation & Assembly language	Paper-3	CS-40 Computer Oriented Numerical and Statistical Methods
Paper-4	CS-61 Data Base Management System	Paper-4	CS-48 Data Communication and Networks
Paper-5	CS-62 Mathematical Structures for Computer Science	Paper-5	CS-64 Object Oriented Programming (Through C++ and Java)
Paper-6	PR-11 Computer Fundamental & C language (Minor project)	Paper-6	PR-03 C++ and Java Programming Language (Minor Project)
		Paper-7	PR-04 Data Structures (Minor Project)
<b>Semester -III</b>		<b>Semester -IV</b>	
Paper 1	CS-65 Software Engineering	Paper 1	CS-70 Data Mining and Data Warehousing
Paper 2	CS-66 Operating Systems	Paper 2	CS-12 Interactive Computer Graphics
Paper 3	CS-67 Analysis and Design of Algorithm	Paper 3	CS-37 Theory of Computations
Paper 4	CS-68 .NET Framework and C#	Paper 4	CS-71 Artificial Intelligence (Using LISP)
Paper 5	CS-69 Relational Data Base Management Systems	Paper 5	CS-72 Advanced Java and Network Programming
Paper 6	PR-05 RDBMS (SQL Server/Oracle/My SQL) (Minor project)	Paper 6 <sup>th</sup>	PR-08 Advanced Java and Network Programming (Minor Project)
Paper 7	PR-06 Programming in .NET and C# (Minor Project)	Paper 7 <sup>th</sup>	PR-07 Computer Graphics and Algorithm Analysis (Minor project)
<b>Semester -V</b>		<b>Semester -VI</b>	
Paper 1	CS-17 Computer Based Optimization Techniques	CS-18 Project Work	
Paper 2	CS-57 Software Project Management		
Paper 3	CS-58 Mobile Communication and Application Development (Elective IX)		
Paper 4	CS-59 Soft Computing Techniques using Neural Networks (Elective X)		
Paper 5	PR-13 Mobile application development using Android (Minor project)		
Paper 6	PR-14 Programming using LISP and MATLAB (Neural Networks)		

**PLACEMENTS:** The Placement Cell of the department endeavors to offer placement services to the students.

**ALUMNI RELATIONS:** The department remains in touch with old students by inviting them in get together where they share their experiences.

## PANJAB UNIVERSITY RURAL CENTRE KAUNI (DISTRICT MUKTSAR)

### ABOUT THE CENTRE

The Panjab University Rural Centre Kauni was started in July 2010 realizing the responsibility towards the society in general and the development of the rural area of District Shri Muktsar Sahib in particular.

### Faculty

Designation	Name	Field of Research Specialization
Professor	Jasminder Singh Dhillon	African-American Studies; Ecocriticism; Indian Writing
Assistant Professor	Monica (on deputation to CBLU, Bhiwani, Haryana)	Finance and Marketing



Assistant Professor	Yogita Sarohi	Human Resource Management
Assistant Professor	Rajneesh	Dams and Displacement
Assistant Professor	Dr. Angrej Singh Gill	Economics of Education

**COURSES OFFERED (SEMESTER SYSTEM)**

Course	Seats	Duration	Eligibility	Admission Criteria
B.A.	80	3 years	Passed 10+2 examination from a recognized Board /CBSE	Based on merit
BBA	40	3 years	10+2with 50%marks	Based on merit
B.Com	40	3 years	10+2with 45%marks with Maths/Commerce	Based on merit
PGDCA	40	1 years	50%marks in Graduation	Based on merit

**TITLE OF SYLLABI:** Detailed syllabi available at <http://puchd.ac.in/syllabus.php>)

**BA (Subject Titles Same for All Semesters)**

Compulsory Papers	Paper-1	English (Compulsory)
	Paper-2	Punjabi (Compulsory)
Any Three Electives to be chosen from the Eight Optional Subjects	Paper -3	English Elective
	Paper -4	History
	Paper-5	Sociology
		Political Science
		Physical Education
		Economics
		Punjabi Elective
		Computer Science

**BBA**

Semester-I		Semester-II	
Paper 1	PUNJABI or History and Culture of Punjab	Paper 1	PUNJABI or History and Culture of Punjab
Paper 2	Business Statistics	Paper 2	Management & Soft Skills Management
Paper 3	Fundamentals of Information Technology	Paper 3	Essentials of Business Economics-2
Paper 4	Management Concepts and practices	Paper 4	Business Laws
Paper 5	Financial Accounting	Paper 5	Psychology for Managers
Paper 6	Essentials of Business Economics-1	Paper 6	Financial Management
Semester-III		Semester-IV	
Paper 1	English & Business Communication Skills	Paper 1	English & Business Communication Skills
Paper 2	Operation Research	Paper 2	Project Management
Paper 3	Marketing Management	Paper 3	Research Methodology
Paper 4	Economics of Money and banking	Paper 4	Human Resource Management
Paper 5	Regulatory Framework For Companies	Paper 5	Indirect Tax Law
Paper 6	Direct Tax Law	Paper 6	Database Management System
Semester-V		Semester-VI	
Paper 1	Insurance and Risk Management	Paper 1	Business Policy and strategy
Paper 2	International Business	Paper 2	Production and operations management
Paper 3	Business Environment	Paper 3	Social and ethical issues in Business
Paper 4	Entrepreneurship and small Business Management	Paper 4	Project Report & VIVA-VOCE
Group A	Marketing Management	Group-A	Marketing Management

Paper 1 Consumer Behavior Paper 2 Sales and Distribution Management Group B Financial Management Paper 1 Financial Markets and Services Paper 2 Investment Management Group C Human Resource Management Paper 1 Social Security and Labour Welfare  Paper 2 Industrial Relations and Labour Legislation <b>B.Com.</b>	Paper 1 Advertising and Brand management Paper 2 Marketing of services GROUP-B Financial Management Paper 1 Cost Analysis and control Paper 2 Accounting for Management Group-c Human resource management Paper 1 Human Resource Planning and Performance Management Paper 2 Compensation Management
<b>Semester-I</b>	<b>Semester-II</b>
Paper 1 PUNJABI or History and Culture of Punjab Paper 2 English and Business communication Paper 3 Psychology for Managers Paper 4 Business Economics-1 Paper 5 Principles of Financial Accounting Paper 6 Commercial Laws Paper 7 Principles and practices of Management	Paper 1 PUNJABI or History and Culture of Punjab Paper 2 English and Business Communication Paper 3 E- Commerce Paper 4 Business Economics-2 Paper 5 Corporate Accounting Paper 6 Business Laws Paper 7 Human Resource Managements
<b>Semester-III</b>	<b>Semester-IV</b>
Paper 1 Issues in Indian Commerce Paper 2 Cost Accounting Paper 3 Company Law Paper 4 Business Mathematics and Statistics Paper 5 Banking and Insurance Paper 6 Indirect tax Law	Paper 1 Security analysis and Portfolio Management Paper 2 Advanced Accounting Paper 3 Auditing and Secretarial Practice Paper 4 Cost Accounting Paper 5 Marketing Management Paper 6 Quantitative Techniques and Methods
<b>Semester-V</b>	<b>Semester-VI</b>
Paper 1 Income Tax Law Paper 2 Management Accounting Paper 3 Indian Economy Paper 4 Production and Operation Management Paper 5 Entrepreneurship and Small Business Paper 6 Financial Markets and services <b>PGDCA</b> Paper 1 Fundamentals of Information Technology Paper 2 DBMS Using SQL Paper 3 Computer Based Accounting Paper 4 Computer Networks & Data Communications Paper 5 Computer Programming & Problem Solving (Using C/C++) Paper 6 Web Application Tools and E- Commerce	Paper 1 Direct Tax Laws Paper 2 Financial Management Paper 3 Issues in Financial Research Paper 4 Social and Business Ethics Paper 5 Operational Research Paper 6 Sectoral aspects of Indian Economy  Paper-7 Practical Software Lab. Paper-8 Practical DBMS Lab. Paper-9 Practical Programming Lab. Paper-10 Practical Web Programming Lab. Paper-11 Project Work;  Project Will involve Development of Business Application

### PANJAB UNIVERSITY REGIONAL CENTRE, LUDHIANA

#### ABOUT THE CENTRE

Panjab University Regional Centre has been established at the campus P.U. Extension Library, Ludhiana in the year 2003 on 2.75 Acres of land situated in the Civil Lines areas of Ludhiana. The then Vice-Chancellor took interest and fulfilled the long standing demand of the residents of Ludhiana, for quality Professional (Legal and Management) education by setting up this Regional Centre. A sum of Rs.100 lacs for the construction of the new building was arranged with the personal influence of

the then Vice-Chancellor from Sh. Lala Lajpat Rai, M.P.(Rajya Sabha) out of the MP Local Area Development Fund Scheme and the Institute was formally inaugurated by His Excellency, the Governor of Punjab, Justice O.P. Verma on 05<sup>th</sup> October, 2003.

### FACULTY

Designation	Name	Field of Research Specialization
Professor	Harmeet Singh Sandhu (Director Hony)	Environmental Law
Associate Professor	Arti Puri (Coordinator for LL.B )	Constitutional Law
Assistant Professor	Aman A Cheema	Criminal Law
Assistant Professor	Aditi Sharma	Gender Studies and Criminology
Assistant Professor	Ashish Virk	Jurisprudence, Human Rights
Assistant Professor	Shiv K. Dogra (Coordinator for BA.LL.B Hons )	Criminal Law
Assistant Professor	Neelam Batra	Contract, Family Law
Assistant Professor	Vaishali Thakur	Commercial Law
Assistant Professor (English )	Harpreet K. Vohra	Canadian Literature, Literature of North East India, Childrens Literature
Assistant Professor (Pol. Science)	Rajnish Saryal	International Environmental Politics and Climate Change Policy LIR Theory
Assistant Professor (History)	Meera Nagpal	Social History in Late Medieval Punjab
Assistant Professor (Economics)	Pooja Sikka	Development Economics
Part Time Assistant Professors (Laws)	Vandana Bhanot Sharwan Sehgal Sarita Paul Kuljit Singh Sunil Mittal	Constitutional Law Labour Laws and Service Law Constitutional Law and Family Law. Environmental Law Criminal Law

### COURSES OFFERED(SEMESTER SYSTEM)

Course	Seats	Duration	Eligibility*	Admission Criteria
B.A.LL.B (Hons) Self Finance	60	5-Year	10+2 examination with atleast 50% marks from any recognized Board/University.	Based on PU-CET(UG) Academic Marks: 50% PUCET(UG): 50%
LL.B. (Self Finanace)	60	3 Years	i) Bachelor's/Master's Degree in any discipline with at least 45% marks in aggregate from Panjab University or any other University recognized by Bar Council of India ii) In case of a candidate having a Bachelor's degree of this University or any other University recognized by the Syndicate, through Modern Indian Languages (Hindi or Urdu or Punjabi (Gurmukhi Script) and/ or in a Classical Language (Sanskrit or Persian or Arabic) the aggregate of 45% marks shall be calculated by taking into account the percentage of aggregate marks that he had secured at the language examination, excluding the marks for additional optional paper, English and the elective subject taken together.	Based on PU-CET(PG) Academics: 50% PU-CET(PG): 50%

LLM	26+2NRI	2 Years	(a) LL.B. 3 years Degree/ B.A.LL.B./B.Com. LL.B. 5 years degree examination of this University with minimum 55% marks OR (b) Any equivalent examination of another University recognized by the Syndicate for this purpose.	Based on PU-CET(PG)** Academic Marks =20% PUCET(PG)=80%
MBA	57+9NRI	2 Years	Bachelor's Degree in any stream with not less than 50% marks in aggregate from a recognized University OR A pass in the final examination conducted by the (a) Institute of Chartered Accountants of India or England/ (b) Institute of Cost and Works Accountants of India or England/ (c) Institute of Company Secretaries of India/ AMIE Examination with 50% marks or more after having passed the diploma examination with 60% marks or above and have at least 5 years research/ teaching or professional experience.	Based on CAT CAT Score: 85% Group Discussion: 7.5% Personal Interview: 7.5%

\*5% concession is admissible in eligibility marks to SC/ST/BC/PwD candidates

\*\*Candidates having B.A/B.Com LL.B (Hons.) 5-years Integrated Course will be given Weightage for Hons. as per BCI Rules of Legal Education, 2008. Hons. weightage would be denoted by Z and calculated as follows:  $Z = X \times 15 / 100$ . X =Academic Marks i.e. 20%

**Note-1:** The applicants having a compartment in their qualifying examination shall not be eligible to join LL.B. course irrespective of their clearing the entrance test.

**Note-2:** The applicants who have obtained 10+2 or Graduation/Post Graduation through open universities system directly without having any basic qualifications for prosecuting such studies be not admitted in law courses.

**Note-3:** No candidate will be admitted to the LL.B. course having any Degree inconsistent with the University Grants Commission Regulations and also Bar Council of India, Rules of Legal Education 2008.

**Note 4 :** The concession by way of additional seat for Only (Single) Girl Child and for Cancer/Aids Patient is not applicable to the students falling under regulatory agencies such as MCI, DCI, BCI and NCTE. As the LL.B. course is regulated by Bar Council of India, this concession is not applicable to the LL.B. course.X=Academic Marks i.e. 20 %)

**TITLE OF SYLLABI** (Detailed syllabi available at <http://puchd.ac.in/syllabus.php>)

**LLM ( 2 Year Course )**

Semester -I		Semester -II	
Paper-1	Jurisprudence and Global Justice I	Paper-1	Law and Social Transformation V
Paper-2	International Law and Human Rights II	Paper-2	Constitutional Law and New Challenges VI
Paper-3	Legal Education and Research Methodology III	Paper-3	General Principles of Criminal Law and Forensic Studies VII
Paper-4	Methods of Legislation and Interpretation of Statutes IV	Paper-4	Family Law
Paper-5	Term Paper		-
Semester -III		Semester -IV	
Paper-1	Administrative Law IX	Paper-1	Comparative Public Law XVII
Paper-2	Service Law X	Paper-2	Environmental Law and Policy XVIII
Paper-3	Environmental Protection Law- I XI	<b>GROUP-II CRIMINAL AND CORPORATE LAW</b>	
Paper-4	Environmental Protection Law- II	Paper-1	Corporate Crimes and White Collar Crimes

<p><b>GROUP-II CRIMINAL &amp; CORPORATE LAW</b></p> <p>Paper-1 Criminology, Penology and Victimology XIII</p> <p>Paper-2 Economic and Social Offences XIV</p> <p>Paper-3 Corporate Governance and Corporate Social Responsibility XV</p> <p>Paper-4 Banking and Insurance Law</p> <p><b>LLB ( 3 Year Course )</b></p>	<p>Paper-2 International Trade Law</p> <p>Paper-3 Dissertation &amp; Viva-Voce</p> <p>- -</p> <p>- -</p> <p>- -</p>
<b>Semester -I</b>	<b>Semester -II</b>
<p>Paper-1 Jurisprudence-I</p> <p>Paper-2 Constitutional Law I</p> <p>Paper-3 Law of Contract</p> <p>Paper-4 Family Law I</p> <p>Paper-5 Law of Torts including Motor Vehicle Accidents</p>	<p>Paper-1 Jurisprudence II</p> <p>Paper-2 Constitutional Law</p> <p>Paper-3 Special Contracts</p> <p>Paper-4 Family Law II</p> <p>Paper-5 International Human Rights &amp; Public International Law</p>
<b>Semester -III</b>	<b>Semester -IV</b>
<p>Paper-1 Law of Crimes-I</p> <p>Paper-2 Property Law</p> <p>Paper-3 Labour Law</p> <p>Paper-4&amp;5</p> <p><b>Option : Any two of the following Paper IV &amp; V-</b></p> <p>a. Information Technology Act &amp; RTI Act</p> <p>b. Local Self Government including Panchayat Administration</p> <p>c. International Organization and Humanitarian Law</p> <p>d. Penology and Victimology</p>	<p>Paper-1 Law of Crimes-II</p> <p>Paper-2 Company Law</p> <p>Paper-3 Administrative Law</p> <p>Paper-4 Alternate Dispute Resolution</p> <p><b>Option : Any one of the following Paper V</b></p> <p>a. Law of Taxation Paper V</p> <p>b. International Labour Organization and Labour Laws</p>
<b>Semester -V</b>	<b>Semester -VI</b>
<p>Paper-1 Law of Evidence</p> <p>Paper-2 Criminal Procedure Code</p> <p>Paper-3 Service Law</p> <p>Paper-4 Drafting, Pleading &amp; Conveyance</p> <p>Paper-5 Option Any one of the following: Paper V</p> <p>a. Equity &amp; Trust Law Paper V</p> <p>b. Private International Law</p> <p><b>B.A. LL.B.</b></p>	<p>Paper-1 Environmental &amp; Wild Life Protection Laws</p> <p>Paper-2 Civil Procedure Code &amp; Limitation Act</p> <p>Paper-3 Professional Ethics &amp; Professional Accountability</p> <p>Paper-4 - Moot Court Exercise and Internship</p> <p>Paper-5 Option : Any one of the following: Paper V</p> <p>a. Interpretation of Statute and Principle of Legislation</p> <p>b. IPR Management</p>
<b>Semester -I</b>	<b>Semester -II</b>
<p style="text-align: center;"><b>Group-I (Minor)</b></p> <p>Paper-1(a) Political Science-I (Minor)</p> <p style="text-align: center;"><b>Group-II (Minor)</b></p> <p>Paper-1(b) Economics-I (Minor)</p> <p style="text-align: center;"><b>Major (optional)</b></p> <p>Paper-II (a)</p> <p>Paper-II (a)</p>	<p style="text-align: center;"><b>Group-I (Minor)</b></p> <p>Paper-1(a) Political Science-II (Minor)</p> <p style="text-align: center;"><b>Group-II (Minor)</b></p> <p>Paper-1(b) Economics-II (Minor)</p> <p style="text-align: center;"><b>Major (optional)</b></p> <p>Political Science-I (Major)</p> <p>Political Science-II (Major)</p>

Paper-II (b) History-I (Major) Paper-II(c) Economics-I (Major) Paper-II(d) Sociology-I (Major) Paper-II (e) English-I (Major) The following subjects shall be compulsory: Paper-III English-I Paper-IV Socio Legal Research in Era of Information Technology Paper-V Law of Torts including Motor Vehicle Accident Act and Consumer Protection Laws Paper-VI Law of Contract-I	Paper-II (b) History-II (Major) Paper-II (c) Economics -II (Major) Paper-II (d) Sociology-II (Major) Paper-II (e) English-II (Major) The following subjects shall be compulsory: Paper-III English-II Paper-IV Legal Methods and Systems Paper-V Jurisprudence Paper-VI Special Contracts-II
<b>Semester -III</b>	<b>Semester -IV</b>
<p><b>Group-I</b></p> Paper-I(a) Political Science-III (minor)	<p><b>Group-I</b></p> Paper-I(a) History-I (Minor)
<p><b>Group-II</b></p> Paper-I(b) Economics-III (Minor) <b>Major (optional)</b>	<p><b>Group-II</b></p> Paper-I(b) Sociology-I (Minor) <b>Major (optional)</b>
Paper-II (a) Political Science-III (Major) Paper-II (b) History-III (Major) Paper-II (c) Economics-III (Major) Paper-II (d) Sociology-III (Major) Paper-II (e) English-III (Major)	Paper-II (a) Political Science-IV (Major) Paper-II (b) History-IV (Major) Paper-II (c) Economics-IV (Major) Paper-II (d) Sociology-IV (Major) Paper-II (e) English-IV (Major)
<p><b>The following subjects shall be compulsory:</b></p> Paper-III English-III Paper-IV Public International Law Paper-V Constitutional Law-I Paper-VI Family Law-I	<p><b>Opt any one of the following Language papers. The Language paper once selected will continue to be the same till 6<sup>th</sup> semester.</b></p> Paper-III(a) Hindi-I Paper-III(b) Punjabi-I Paper-III(c) French-I
	<p><b>The following subjects shall be compulsory:</b></p> Paper-IV Administrative Law Paper-V Constitutional Law-II Paper-VI Family Law-II
<b>Semester -V</b>	<b>Semester -VI</b>
<p><b>Group-I</b></p> I(a) History-II (Minor)	<p><b>Group-I</b></p> I(a) History-III (Minor)
<p><b>Group-II</b></p> I(b) Sociology-II (Minor) <b>Major (optional)</b>	<p><b>Group-II</b></p> II(b) Sociology-III (Minor) <b>Subjects (Optional)</b>
II (a) Political Science-V (Major) II (b) History-V (Major) II (c) Economics-V (Major) II (d) Sociology-V (Major) II (e) English-V (Major)	II (a) Political Science-VI (Major) II (b) History-VI (Major) II (c) Economics-VI (Major) II (d) Sociology-VI (Major) II (e) English-VI (Major)

<b>Subjects (optional)</b>	<b>Subjects (optional)</b>
III (a) Hindi-II III (b) Punjabi-II III (c) French-II <b>The following subjects shall be compulsory:</b> IV Indian Penal Code-I V Criminal Procedure-I <b>Opt any one of the following subjects</b> VI(a) Local Self Government  VI(b) Interpretation of Statutes and Principles of Legislation VI(c) International Criminal Law and International Criminal Court	III (a) Hindi-II III (b) Punjabi-II III (c) French-II <b>The following subjects shall be compulsory:</b> IV Indian Penal Code-II V Criminal Procedure-II <b>Opt any one of the following subjects</b> VI(a) Law Relating to Agriculture (common with Law and Agriculture) VI(b) Private International Law VI(c) Land Laws and Rent Laws
<b>Semester -VII</b>	<b>Semester -VIII</b>
<b>Subjects (Optional)</b> I(a) Political Science-V (Major) I(b) History-V (Major) I(c) Economics-V (Major) I(d) Sociology-V (Major) I(e) English-V (Major) The following subjects shall be compulsory II Law of Property (common with Property Law including Transfer of Property Act 1882) III Law of Evidence IV Civil Procedure-I Opt any one of the following subjects V(a) Gender Justice and Feminist Jurisprudence V(b) Right to Information and Media Law V(c) Business Laws	<b>Subjects (Optional)</b> I(a) Political Science-VI (Major) I(b) History-VI (Major) I(c) Economics-VI (Major) I(d) Sociology-VI (Major) I(e) English-VI (Major) The following subjects shall be compulsory II Drafting, Pleading and Conveyance  III Environmental Law IV Civil Procedure including Limitation Law-II Opt any one of the following subjects V(a) International Trade Law V(b) Election Law V(c) Service Laws
<b>Semester -IX</b>	<b>Semester -X</b>
I Labour and Industrial Laws  II Moots and Practical Training (common with Moots) III Forensic Science IV International Human Rights V Principles of Taxation Law	I Labour Laws and International Labour Organization II Information Technology Law III Company Law IV Criminology, Penology and Victimology V Intellectual Property Laws

**THRUST AREAS:** The main focus of the department is on various aspects of Law including moot court, internship, in the District Court Ludhiana and Educational Tour to the Supreme Court, the Central Jail. The Department also concentrates on subjects of Social Sciences i.e. History, Political Science and Economics as well as English studying various aspects of the subject with focus on latest developments.

**PLACEMENTS:** The placement cell of the department endeavors to offer placement and internship services to student in various organizations, Law firms and IPO's.

**ALUMNI RELATIONS:** The department remains in touch with old students by inviting them in get together where they share their experiences.

## PANJAB UNIVERSITY SWAMI SARVANAND GIRI REGIONAL CENTRE UNA ROAD BAJWARA, HOSHIARPUR

### ABOUT THE CENTRE

Keeping with its long tradition of pursuing excellence in teaching and research, Panjab University, Chandigarh established a Regional Centre in the Kandi area of Punjab to cater to the academic needs of the rural students of the region. Earlier known as Swami Sarvanand Giri Regional Centre, this campus was renamed as Panjab University Swami Sarvanand Giri Regional Centre in the year 2011. Spread in picturesque environment near Shivalik foothills, the centre is a landmark donation of infrastructure spread in 10.86 acres of lush green area in the land of saints (Hoshiarpur) by Dr. Lajpat Rai Munger. The Centre was started with an aim to provide innovation and pre-eminence in the fields of Engineering and Research, conforming to the standards of Panjab University, Chandigarh. The Centre has been reinstated with several branches like University Institute of Engineering and technology (UIET), Department of Computer Science and Applications (DCSA) and University Institute of Legal Studies (UILS).

### University Institute of Engineering and Technology (UIET), PUSGRC, Hoshiarpur

UIET, Hoshiarpur offers Graduate Engineering programmes (self financing) in four branches i.e. Computer Science and Engineering (CSE), Electronics and Communication Engineering (ECE), Information Technology (ITE), and Mechanical Engineering (ME). The institute has well qualified faculty committed to both academics and research. Some of the teachers also own DST/CSIR funded/sponsored research projects. The centre has well equipped infrastructure, self sufficient state-of-the-art laboratories and workshops. The secured campus offers 100% hostel accommodation for both boys and girls with Wi-Fi facility, Health Centre, Cafeteria, 20 Mbps Internet Connectivity (being upgraded to 170 MBPS) with Optical fibre Backbone, buses for transportation, 24 hours uninterrupted power supply through hotline etc. Apart from academics, UIET also promotes interaction at various levels among the students, the faculty and the experts from industry as well as organizations through National level conferences, symposiums and seminar on regular basis. The department also has a rich collection of library books with latest edition.

For channelizing the energy of the students, the campus also has NSS, Gymnasium and all other necessary sports amenities. It also houses an air conditioned auditorium with a seating capacity of more than 300 persons for academic and several cultural activities.

### FACULTY

Designation	Name	Field of Research Specialization
Professor	Harminder Singh Bains (Director)	Metal Matrix Composite : Production, Processing And Fabrication
Associate Professor	Manu Dogra	Machining and manufacturing
Assistant Professors	Meenu Bhagat	National language processing
	Jaswinder Singh	(Material characterization)
	Neeraj Sharma	Wireless communications
	Gurinder Singh	Solid state experimental and theoretical physics
	Vinay Arora	Linear algebra & differential equations
	Gurpreet Singh	Digital circuit & logic design
	Prabha Sharma	
	Naveen Dogra	Cloud computing
	Mandeep Singh Walia	Signal processing
	Suresh Kumar	Digital image processing, electronic devices and circuits
	Jaspal Singh	Power systems
	Suman	Power & system
	Harkamal Preet Singh	Composite material
	Satish Kumar	Solid mechanics, numerical methods wavelets, eem
	Aman Kaura	Physics chemistry
	Ankur Singh Kang	Digital signal processing
	Ravinder Kumar Pal	Renewable energy
	Sukhvinder Singh Bamber	Wireless sensor networks
	Abhishek Chauhan	Machine design
	Balwant Raj	Embedded systems , electronics



Temporary Faculty	Rajeev Kumar Dang	Manufacturing materials
	Gaurav Saini	Non-conventional machining & mechanical vibration
	Kanwalpreet	Computer networks
	Ritika Arora	Network security
	Monika	Wireless communication
	Sukhpreet Kaur	Parallel computing
	Anish Sharma	Communication systems
	Gurpinder Singh	Computer network & mobile adhoc network (practical comparison)
	Harman Preet Kaur	Fiber optics digital signal proc.
	Divya Sharma	Cryptography & steganography
	Ajay Kumar Saini	Thermal barrier locating cfd engineering, thermal engineering
	Gurwinder Singh	Wear design
	Shama Pathania	Database mangement system
	Tanvi Sharma	Non destructive testing

**Department of Computer Science & Applications**

Associate Professor	Satish Kumar	Image processing and pattern recognition
Assistant Professors	Rajinder Singh	Wireless network security

	Rahul Jassal
	Neeru Mago

Temporary Faculty Navjot Kaur

**University Institute of Legal Studies**

Assistant Professors	Kumari Monika	International laws human rights, administrative law
	Sukhbir Kaur	
	Pooja Sood	Law of crimes, jurisprudence criminology victimnology, environmental law
	Vinay Sharma	

Savita Grover  
SunainaConstitutional law, criminal law service  
law compensatory jurisRitu Salaria  
Brajesh Sharma  
Dharam Pal Singh Punia**Advocate Quota**Chander Shekhar Marwaha  
Kamya Rani

Service law , taxation law

**COURSES OFFERED (SEMESTER SYSTEM)**

Course	Seats	Duration	Eligibility*	Admission Criteria
B.E. (Computer Science & Engineering)	65	4 years	<b>For all B.E. Courses:</b> Passed 10+2 examination with at least 60% marks in aggregate having Physics and Mathematics as compulsory subjects along with one of the subjects Chemistry/ Biotechnology / Biology/ Technical Vocational subjects conducted by a recognized Board/ University / Council not earlier than March / April 2015.	Based on JEE (Main) ranking
B.E.(Electronics & Communication Engineering)	65	4 years		
B.E.(Information Technology)	65	4 years		
B.E.(Mechanical Engineering)	65	4 years		
MCA	50+3 (EWS)	3 Years	i. A recognized first degree of minimum three years duration in any discipline with at least 50% marks and with Mathematics at 10+2 or at graduation level (all three years) OR	Based on PU-CET (PG) Academics : 50% PU-CET(PG) : 50%

			ii. B.C.A. from Panjab University with 50% marks OR iii. Any examination recognized by the Panjab University, Chandigarh as equivalent to any of the above examination (i) or (ii)	
B.A.LL.B(Hons.) 5 Years Integrated Course	60**	5 years	10+2 examination with at least 50% marks from any recognized Board/University**	Based on PU-B.A /B.Com LL.B (Hons.) Entrance Test Academics: 50% Entrance Test: 50%
L.L.B.	60**	3 years	i) Bachelor's/Master's Degree in any discipline with at least 45% marks in aggregate from Panjab University or any other University recognized by Bar Council of India ii) In case of a candidate having a Bachelor's degree of this University or any other University recognized by the Syndicate, through Modern Indian Languages (Hindi or Urdu or Punjabi (Gurmukhi Script) and/or in a Classical Language (Sanskrit or Persian or Arabic) the aggregate of 45% marks shall be calculated by taking into account the percentage of aggregate marks that he had secured at the language examination, excluding the marks for additional optional paper, English and the elective subject taken together.	Based on PU-CET(PG) Academics: 50% PU-CET(PG) : 50%

\*5% Concession is admissible in eligibility marks to SC/ST/BC/PwD Candidates

Note-1: The applicants having a compartment in their qualifying examination shall not be eligible to join LL.B. course irrespective of their clearing the entrance test.

Note-2: The applicants who have obtained 10+2 or Graduation/Post Graduation through open universities system directly without having any basic qualifications for prosecuting such studies be not admitted in law courses.

Note-3: No candidate will be admitted to the LL.B. course having any Degree inconsistent with the University Grants Commission Regulations and also Bar Council of India, Rules of Legal Education 2008.

Note 4 : The concession by way of additional seat for Only (Single) Girl Child and for Cancer/Aids Patient is not applicable to the students falling under regulatory agencies such as MCI, DCI, BCI and NCTE. As the LL.B. course is regulated by Bar Council of India, this concession is not applicable to the LL.B. course.

**TITLES OF SYLLABI:** (Detailed syllabi available at <http://puchd.ac.in/syllabus.php>)

**B.E. (Computer Science and Engg.)**

Semester -I		Semester -II	
Paper-1	Calculus	Paper-1	Differential Equations & Transforms
Paper-2	Introduction to Computer Science & Engineering	Paper-2	Communication Skills
Paper-3	Programming Fundamental	Paper-3	Applied Chemistry
Paper-4	Physics Course 1	Paper-4	Workshop Practice
Paper-5	Ethics & Self Awareness	Paper-5	Digital Electronics & Logic Design
Paper-6	Introduction to Environment Science	Paper-6	Object Oriented Programming Innovative Product Design- Summer Vacation Training (4 Weeks)
Semester -III		Semester -IV	
Paper-1	Data Structures	Paper-1	Analysis and Design of Algorithms
Paper-2	Data Structures (Practical)	Paper-2	Analysis and Design of Algorithms (Practical)
Paper-3	Database Systems	Paper-3	Web Technologies

Paper-4 Database Systems (Practical)	Paper-4 Web Technologies (Practical)
Paper-5 Discrete Structures	Paper-5 Operating Systems
Paper-6 Microprocessors	Paper-6 Operating Systems (Practical)
Paper-7 Microprocessors (Practical)	Paper-7 Software Engineering
Paper-8 Economics	Paper-8 Software Engineering (Practical)
Paper-9 Vocational Training (After II <sup>nd</sup> Semester)	Paper-9 Computer Architecture and Organization
<b>Semester -V</b>	<b>Semester -VI</b>
Paper-1 Data Communication & Networks	Paper-1 Computer Networks & Security
Paper-2 Technical Communication and Soft Skills (Practical)	Paper-2 Computer Networks & Security (Practical)
Paper-3 Computer Graphics	Paper-3 Linear Algebra & Probability Theory
Paper-4 Computer Graphics (Practical)	Paper-4 Modeling & Simulation
Paper-5 Artificial Intelligence	Paper-5 Modeling & Simulation (Practical)
Paper-6 Artificial Intelligence (Practical)	Paper-6 Compiler Design
Paper-7 Principle of Programming Languages	Paper-7 Compiler Design (Practical)
Paper-8 Theory of Computation	Paper-8 Elective-I (Software Testing & Quality Assurance, Soft Computing, Data Mining Analysis, Mobile Application Development, Data Acquisition & Interfacing, Multimedia Computing)
Paper-9 Industrial Training (After IV <sup>th</sup> Semester)	Paper-9 Elective-I Practical (Software Testing & Quality Assurance, Soft Computing, Data Mining Analysis, Mobile Application Development, Data Acquisition & Interfacing, Multimedia Computing)
Paper-10 Principles of Designing (Optional)	
<b>Semester -VII</b>	<b>Option-1 Semester -VIII</b>
Paper-1 Compiler Design	Paper-1 Advanced Database Systems
Paper-2 Compiler Design (Practical)	Paper-2 Digital Image Processing
Paper-3 Multimedia System Design	Paper-3 Digital Image Processing (Practical)
Paper-4 Software Testing & Quality Assurance	Paper-4 Elective-II (Network Programming, Visual Programming, Java Technologies)
Paper-5 Software Testing & Quality Assurance (Practical)	Paper-5 Elective-II Practical (Network Programming, Visual Programming, Java Technologies)
Paper-6 Elective-I (Information Security, Business Intelligence, Mobile Computing)	Paper-6 Elective-III (Soft Computing, Embedded Systems, Building Enterprise Applications)
Paper-7 Intelligence, Mobile Computing)	Paper-7 Project-II
Paper-8 Project-I	Option-2 : Industrial Training (6 Months)
Paper-9 Seminar	
Paper-10 Industrial Training (After VI <sup>th</sup> Semester)	
<b>B.E. (Electronics &amp; Communication Engg.)</b>	
<b>Semester -I</b>	<b>Semester -II</b>
Paper-1 Calculus	Paper-1 Differential Equations & Transforms
Paper-2 Introduction to Electronics	Paper-2 Ethics & Self Awareness
Paper-3 Workshop	Paper-3 Physics Course 1
Paper-4 Applied Chemistry	Paper-4 Introduction to Environment Science
Paper-5 Communication Skills	Paper-5 Analog Electronic Circuits

Paper-6	Computer Programming (MATLAB Programming for Engineers)	Paper-6	Digital Design
		Paper-7	Innovative Product Design- Summer Vacation Training (4 Weeks)
<b>Semester -III</b>		<b>Semester -IV</b>	
Paper-1	Electrical Science	Paper-1	Linear Algebra & Complex Analysis
Paper-2	Electromagnetic Theory	Paper-2	Communication Engineering
Paper-3	Signals and Systems	Paper-3	Microcontroller & Interfacing
Paper-4	Microprocessor and Applications	Paper-4	Communication Theory
Paper-5	Analog Electronic Circuits –II	Paper-5	Engineering Analysis and Design: Virtual Instrumentation
Paper-6	Elective (from Humanities and Social Sciences)	Paper-6	Computer Networks
<b>Semester -V</b>		<b>Semester -VI</b>	
Paper-1	VLSI Design	Paper-1	Microwave & Radar Engineering
Paper-2	Digital Signal Processing	Paper-2	Fiber Optic Communication Systems
Paper-3	Antennas & Wave Propagation	Paper-3	Digital Communication
Paper-4	Advanced Microprocessors	Paper-4	Departmental Elective Course-I (Data Structures & Algorithms, Satellite Communication, Audio and Visual Systems, Data Acquisition and Hardware Interfacing)
Paper-5	Digital System Design	Paper-5	Open Elective (Engineering Analysis and Design: Virtual Instrumentation, Neural Network and Fuzzy Logic, Microcontroller & Applications, Digital Image Processing, Analog & Digital Communication, Electronics Circuit Design)
Paper-6	Control Systems	Paper-6	Minor Specialization Course-I & II (Any Two) (Microcontroller & Application, Electronics Circuit Design, VLSI Design)
Paper-7	Summer Training	Paper-7	Departmental Honors Course-I & II (Any Two) (Information Theory & Coding, Low Power VLSI Design, Data Acquisition and Hardware Interfacing, Smart System Technologies)
<b>Semester -VII</b>		<b>Semester -VIII</b>	
Paper-1	Fiber Optic Communication Systems	(Any Two) (Digital Image Processing, Advanced Digital Communication, Neural Networks & Fuzzy Logic, Embedded System Design) Elective-IV & V (Any Two) (MEMS and Microsystems, Artificial Intelligence, Operation Research, Nano Technology, Satellite Communication) Seminar-II Project-II Option-2 :Industrial Training (6 Months)	
Paper-2	Digital Signal Processing		
Paper-3	Wireless & Mobile Communication		
Paper-4	Elective-I (Operating Systems, Radar		
Paper-5	Engineering, Web Technologies, Cyber Laws & IPR)		
Paper-6	Seminar-I		
Paper-7	Project-I		
Paper-8	Summer Training		
<b>B.E. (INFORMATION TECHNOLOGY)</b>			
<b>Semester –I</b>		<b>Semester -II</b>	
Paper-1	Calculus	Paper-1	Differential Equations & Transforms
Paper-2	Introduction to Information Technology	Paper-2	Communication Skills

Paper-3	Programming Fundamental	Paper-3	Physics Course 2
Paper-4	Physics Course 1	Paper-4	Workshop Practice
Paper-5	Ethics & Self Awareness	Paper-5	Introduction to Environmental Science
Paper-6	Basic Electrical Engineering	Paper-6	Introduction to Electronics
		Paper-7	Innovative Product Design- Summer Vacation Training (4 Weeks)
<b>Semester -III</b>		<b>Semester -IV</b>	
Paper-1	Cyber Laws & IPR	Paper-1	Elective-I (From Humanities & Social Sciences)
Paper-2	Linear Algebra & Operations Research	Paper-2	Discrete Mathematics
Paper-3	Analog & Digital Communication	Paper-3	Data Structure & Algorithms
Paper-4	Object Oriented Programming	Paper-4	Microprocessor
Paper-5	Digital Electronics	Paper-5	Computer Networks
Paper-6	Computer Architecture & Organisation	Paper-6	Internet & Web Technology
<b>Semester -V</b>		<b>Semester -VI</b>	
Paper-1	Data Base Managements Systems	Paper-1	Wireless Communication
Paper-2	Computer Graphics)	Paper-2	Business Intelligence
Paper-3	Operating System	Paper-3	Network Security & Cryptography
Paper-4	Multimedia System	Paper-4	Departmental Elective Course-I (Any One) (Software Engineering, System Software, Data Acquisition & Hardware Interfacing)
Paper-5	Principles of Telecommunication	Paper-5	Open Elective (Any One) (Analysis & Design of Algorithms, Neural network & Fuzzy Logic, System Analysis & Design, Distributed Operating System )
Paper-6	Industrial Training (After IV <sup>th</sup> Semester)	Paper-6	Departmental Honors Course – I & II (Any Two) (Network Management & Administration, Cyber Crime & Digital forensics, Optical Fiber Communication)
		Paper-7	Minor Specialization Course – I (Data Mining & Analytics)
		Paper-8	Minor Specialization Course –II (Software Project Management)
		Paper-9	
<b>Semester -VII</b>		<b>Semester -VIII</b>	
		<b>Option-1</b>	
Paper-1	Digital Signal Processing	Paper-1	Digital image Processing
Paper-2	Agile Software Development	Paper-2	Embedded System Design
Paper-3	Mobile Computing	Paper-3	Java Technologies
Paper-4	Cloud Computing	Paper-4	Elective-III (Any One) (Theory of Computation, Soft Computing, Mobile Apps Development)
Paper-5	Elective-II (Any One) (Artificial Intelligence, Compiler Design, Building Enterprise Applications)	Paper-5	Seminar
Paper-6	Project-I	Paper-6	Project-II
Paper-7	Industrial Training (after VI <sup>th</sup> Semester)		Option-2: Industrial Training (6 Months)
<b>B.E. (MECHANICAL ENGINEERING)</b>			
<b>Semester -I</b>		<b>Semester -II</b>	
Paper-1	Calculus	Paper-1	Differential Equations & Transforms
Paper-2	Engineering Mechanics	Paper-2	Ethics & Self Awareness

Paper-3	Introduction to Manufacturing Processes	Paper-3	Physics Course 1
Paper-4	Applied Chemistry	Paper-4	Engineering Mechanics
Paper-5	Communication Skills	Paper-5	Engineering Graphics
Paper-6	Introduction to Environmental Science	Paper-6	Computer Programming (MATLAB Programming for Engineers)
		Paper-7	Innovative Product Design- Summer Vacation Training (4 Weeks)
<b>Semester -III</b>		<b>Semester -IV</b>	
Paper-1	Applied Thermodynamics-I	Paper-1	Applied Thermodynamics-II
Paper-2	Mechanics of Materials-I	Paper-2	Mechanics of Materials-II
Paper-3	Theory of Machines-I	Paper-3	Theory of Machines-II
Paper-4	Machine Drawing	Paper-4	Numerical Analysis
Paper-5	Manufacturing Processes	Paper-5	Manufacturing Technology- I
Paper-6	Math-3	Paper-6	Fluid Mechanics
<b>Semester -V</b>		<b>Semester -VI</b>	
Paper-1	Design of Machine Elements-I	Paper-1	Design of Machine Elements -II
Paper-2	CAD/CAM (Computer Aided Design & Manufacturing)	Paper-2	Finite Element Methods
Paper-3	Robotics	Paper-3	Mechanical Vibrations
Paper-4	Mechanical Measurement	Paper-4	Heat Transfer
Paper-5	Manufacturing Technology- II	Paper-5	Materials and Heat Treatment
Paper-6	Fluid Machinery	Paper-6	Non Conventional Manufacturing
Paper-7	Vocational Training-1 (After IV <sup>th</sup> Semester)		
Paper-8	Principles of Designing (Optional)		
<b>Semester -VII</b>		<b>Semester -VIII Option-1</b>	
Paper-1	Refrigeration and Air Conditioning	Paper-1	Mechatronics
Paper-2	Automatic Controls	Paper-2	Operation Research
Paper-3	Automobile Engineering	Paper-3	Computational Fluid Dynamics
Paper-4	Total Quality Management	Paper-4	Fluid Dynamics
Paper-5	Elective-I (Thermal Plant Engineering, Gas Dynamics, Renewable Energy Sources, Advanced Mechanics of Materials-I, Work Study, Mechanical Behavior of Materials-1, Vehicle Dynamic, Materials Design)	Paper-5	Elective-II (Experimental Stress Analysis, Metrology, Mechanical Handling, Bearings and Lubrication, Plastic and Rubber Technology, Advanced Fluid Machinery, Production and Operations Management, Theory of elasticity & plasticity, Advanced Mechanics of Materials -2, Advances in Engineering Materials, Mechanical Behavior of Materials-2, Rotor Dynamics, Imaging And Additive Manufacturing,)
Paper-6	Minor Project	Paper-6	Major Project
Paper-7	Vocational Training after 6th semester		Option-2 ;Industrial Training (6 Months)
<b>MCA</b>			
<b>Semester -I</b>		<b>Semester -II</b>	
Paper-1	Computer Fundamentals & C Programming	Paper-1	Data and File Structures (Using C)
Paper-2	Computer Organization and Assembly Language	Paper-2	Object Oriented Programming (Through C++ and Java)

Paper-3 Data Base Management systems Paper-4 Mathematical Structures for Computer Science (Elective-I) Paper-5 Linux Operating System (Elective-II)	Paper-3 Data Communication and Networks Paper-4 Computer Oriented Numerical & Statistical Methods (Elective-III) Paper-5 Accounting and Financial Management (Elective-IV)
<b>Semester -III</b>	<b>Semester -IV</b>
Paper-1 Software Engineering Paper-2 Operating Systems Paper-3 Analysis and Design of Algorithms Paper-4 .NET Framework and C# (Elective V) Paper-5 Relational Data Base Management Systems (Elective VI)	Paper-1 Data Mining and Data Warehousing Paper-2 Interactive Computer Graphics Paper-3 Theory of Computations Paper-4 Artificial Intelligence (Using LISP) (Elective VII) Paper-5 Advanced Java and Networking Programming (Elective-VIII)
<b>Semester -V</b>	<b>Semester -VI</b>
Paper-1 Computer Based Optimization Techniques Paper-2 Software Project Management Paper-3 Mobile Communication and Android Application Development (Elective IX) Paper-4 Soft Computing Techniques using Neural Networks (Elective X) Paper-6 Seminar <b>B.A.L.L.B. (HONS.)</b>	Project Work (20 to 24 Weeks duration)
<b>Semester -I</b>	<b>Semester -II</b>
Group-I (Minor) - Political Science-I (Minor) OR Group-II (Minor) – Economics – I (Minor) <b>Major (Optional)</b> Paper-1 Political Science – I (Major) Paper-2 History –I (Major) Paper-3 Economics – I (Major) Paper-4 Sociology – I (Major) Paper-5 English- I (Major) <b>Compulsory</b> Paper-1 English-I Paper-2 Socio Legal Research in Era of Information Technology Paper-3 Law of Torts including Motor Vehicle Accident Act and Consumer Protection Laws Paper-4 Law of Contract – I	Group-I (Minor) - Political Science-II (Minor) OR Group-II (Minor) – Economics – II (Minor) <b>Major (Optional)</b> Paper-1 Political Science – II (Major) Paper-2 History –II (Major) Paper-3 Economics – II (Major) Paper-4 Sociology – II (Major) Paper-5 English- II (Major) <b>Compulsory</b> Paper-1 English-II Paper-2 Legal Methods and Systems Paper-3 Jurisprudence Paper-4 Special Contracts-II
<b>Semester -III</b>	<b>Semester -IV</b>
Group-I (Minor) - Political Science-III (Minor) OR Group-II (Minor) – Economics – III (Minor) <b>Major (optional)</b> Paper-1 Political Science – III (Major) Paper-2 History –III (Major) Paper-3 Economics – III (Major) Paper-4 Sociology – III (Major)	Group-I (Minor) – History-I (Minor) OR Group-II (Minor) – Sociology-I (Minor) <b>Major (optional)</b> Paper-1 Political Science – IV (Major) Paper-2 History –IV (Major) Paper-3 Economics – IV (Major) Paper-4 Sociology – IV (Major)

<p>Paper-5 English- III (Major)</p> <p><b>Compulsory</b></p> <p>Paper-1 English-III</p> <p>Paper-2 Public International Law</p> <p>Paper-3 Constitutional Law-I</p> <p>Paper-4 Family Law-I</p>	<p>Paper-5 English- IV (Major)</p> <p>Subjects (Optional Language Papers- Once selected will continue to be the same till VI<sup>th</sup> Semester)</p> <p>Hindi-I Punjabi-I French-I</p> <p><b>Compulsory</b></p> <p>Paper-1 Administrative Law</p> <p>Paper-2 Constitutional Law-II</p> <p>Paper-3 Family Law-II</p>
<b>Semester -V</b>	<b>Semester -VI</b>
<p>Group-I (Minor) – History-II (Minor)</p> <p>OR</p> <p>Group-II (Minor) – Sociology-II (Minor)</p> <p><b>Major (optional)</b></p> <p>Paper-1 Political Science – V (Major)</p> <p>Paper-2 History –V (Major)</p> <p>Paper-3 Economics – V (Major)</p> <p>Paper-4 Sociology – V (Major)</p> <p>Paper-5 English- V (Major)</p> <p><b>Subjects (Optional Language Papers- Once selected will continue to be the same till VI<sup>th</sup> Semester)</b></p> <p>Hindi-II Punjabi-II French-II</p> <p><b>Compulsory</b></p> <p>Paper-1 Indian Penal Code-I</p> <p>Paper-2 Criminal Procedure-I</p> <p>Paper-3 Opt any one of the following subjects:-</p> <p>Paper-4 Local Self Government</p> <p>Paper-5 Interpretation of Statutes and Principles of Legislation</p> <p>Paper-6 International Criminal Law and International Criminal Court</p>	<p>Group-I (Minor) – History-III (Minor)</p> <p>OR</p> <p>Group-II (Minor) – Sociology-III (Minor)</p> <p><b>Major (optional)</b></p> <p>Paper-1 Political Science – VI (Major)</p> <p>Paper-2 History –VI (Major)</p> <p>Paper-3 Economics – VI (Major)</p> <p>Paper-4 Sociology – VI (Major)</p> <p>Paper-5 English- VI (Major)</p> <p><b>Subjects (Optional Language Papers- Once selected will continue to be the same till VI<sup>th</sup> Semester)</b></p> <p>Hindi-III Punjabi-III French-III</p> <p><b>Compulsory</b></p> <p>Paper-1 Indian Penal Code-II</p> <p>Paper-2 Criminal Procedure-II</p> <p>Paper-3 Opt any one of the following subjects:-</p> <p>Paper-4 Law Relating to Agriculture (common with Law and Agriculture)</p> <p>Paper-5 Private international Law</p> <p>Paper-6 Land Laws and Rent Laws</p>
<b>Semester -VII</b>	<b>Semester -VIII</b>
<p>Major (optional)</p> <p>Paper-1 Political Science – V (Major)</p> <p>Paper-2 History –V (Major)</p> <p>Paper-3 Economics – V (Major)</p> <p>Paper-4 Sociology – V (Major)</p> <p>Paper-5 English- V (Major)</p> <p><b>Compulsory</b></p> <p>Paper-1 Law of Property (Common with Property Law including Transfer of Property Act 1882)</p> <p>Paper-2 Law of Evidence</p> <p>Paper-3 Civil Procedure-I</p> <p>Opt any one of the following subjects:-</p> <p>Gender justice and Feminist Jurisprudence</p> <p>Right to Information and Media Law</p> <p>Business Law</p>	<p>Major (optional)</p> <p>Paper-1 Political Science – VI (Major)</p> <p>Paper-2 History –VI (Major)</p> <p>Paper-3 Economics – VI (Major)</p> <p>Paper-4 Sociology – VI (Major)</p> <p>Paper-5 English- VI (Major)</p> <p><b>Compulsory</b></p> <p>Paper-1 Drafting, Pleading and Conveyance</p> <p>Paper-2 Environmental Law</p> <p>Paper-3 Civil Procedure including Limitation</p> <p>Law-II Opt any one of the following subjects:-</p> <p>International Trade Law</p> <p>Election Law</p> <p>Service Laws</p>



Semester -IX		Semester -X	
Paper-1	Labour and Industrial Laws	Paper-1	Labour Laws and International Labour Organization
Paper-2	Moots and Practical Training (Common with Moots)	Paper-2	Information Technology Law
Paper-3	Forensic Science	Paper-3	Company Law
Paper-4	International Human Rights	Paper-4	Criminology, Penology and Victimology
Paper-5	Principles of Taxation Law	Paper-5	Intellectual Property Laws
<b>L.L.B. (3 YEAR COURSE)</b>			
Semester -I		Semester -II	
Paper-1	Jurisprudence-I	Paper-1	Jurisprudence-II
Paper-2	Constitutional Law- I	Paper-2	Constitutional Law- II
Paper-3	Law of Contract	Paper-3	Special Contracts
Paper-4	Family Law-I	Paper-4	Family Law-II
Paper-5	Law of Torts including Motor Vehicle Accidents and Consumer Protection Laws	Paper-5	International Human Rights and Public International Law
Semester -III		Semester -IV	
Paper-1	Law of Crimes-I	Paper-1	Law of Crimes-II
Paper-2	Property Law	Paper-2	Company Law
Paper-3	Labour Law	Paper-3	Administrative Law
Paper-4	Option: Any two of the following:- a) Information Technology Act & RTI Act b) Local Self government including Panchayat Administration c) International Organization and Humanitarian Law d) Penology and Victimology	Paper-4	Alternate Dispute Resolution Option: Any one of the following:- a) Law of Taxation b) International Labour Organization and Labour Laws
Semester -V		Semester -VI	
Paper-1	Law of Evidence	Paper-1	Environmental and Wild Life Protection Laws
Paper-2	Criminal Procedure Law	Paper-2	Civil Procedure Code and Limitation Act
Paper-3	Service Law	Paper-3	Professional Ethics and Professional Accountability
Paper-4	Drafting, Pleading and Conveyance	Paper-4	Moot Court Exercise and Internship
Paper-5	Option: Any one of the following:- a) Equity and Trust Law b) Private International Law	Paper-5	Option: Any one of the following:- a) Interpretation of Statute and Principle of Legislation b) IPR Management

**THRUST AREAS: UIET:** The major thrust areas of UIET are Material Sciences, Conventional Machining of Modern Materials, Wireless Sensor Network, Cloud computing, Cyber Crimes & Forensics, Cyber Security, Renewable Energy. **DCSA:-**The major thrust areas of DCSA are Image Processing & Pattern Recognition, Wireless Network Security. **UILS:-**The major thrust areas of UILS are Civil Law, Criminal Law, Constitutional Matters, Corporate Matters, Arbitration.

**CAMPUS PLACEMENTS:** The institute has commendable placement record with students getting placed in reputed companies like Infosys, SUFI, Net Solution, UNO Solution, Swipecubes Softs, Tata-Motors, Talwar & Talwar Consultants, smart Data, AZCOM and others. The campus has a proud alumni serving at good positions in various renowned organizations in India and abroad. Further, UIET has an MOU with Infosys under Campus Connect initiative programme and with TEXAS (USA) Instruments. We look forward to enhance the placement opportunities for our young engineering graduates by doing tie ups with more companies.

**ALUMNI RELATIONS (CAMPUS):** In order to maintain a continuous touch with the campus alumni, a committee comprising of faculty & students works throughout the year. The database of alumni having details in regard of Professional /Academic achievements is maintained continuously. The institute is planning to organise alumni meets at this campus in due course of time.

## RULES OF ADMISSION FOR THE COURSES OFFERED BY UNIVERSITY TEACHING DEPARTMENTS/CENTRES/INSTITUTES

### 1. General Rules:

Admission to all courses offered by the Panjab University teaching Departments / Centres / Institutes is governed by the following rules :

- a) Wherever for admission, Bachelor's Degree is the minimum requirement, it shall mean the first degree obtained under 10+2+3 scheme. The first degree obtained under the old scheme (14-year course) till April, 1995 will be treated at par with the first degree under 10+2+3 scheme for the purpose of admission to these courses.
- b) Every candidate must apply for the Reserved Category(ies) to which he/she belongs to in the Admission Form. All candidates will be considered in the General Category irrespective of the fact that they have claimed for admission under Reserved/Additional Categories. No candidate shall be considered for admission against any Reserved Category(ies) for which s/he has not applied.
- c) All information relating to admission shall be uploaded on the Online Notice Board of the concerned department as well as on the Physical Notice Board.

### 2. Distribution of seats

#### 2.1 Seats for General and Reserved Categories

The number of seats in each course offered in the Teaching Departments, as announced in the Admission Notice/s, shall be strictly adhered to, except for such minor adjustment as may be necessary on account of rounding off fractions to accommodate reservations, as given below :-

- (A) 55.5% of the seats in each course shall be treated as belonging to the General Category.
- (B) 44.5% seats shall be treated as belonging to the Reserved Category, as per details given below :
  - (i) 15% for candidate belonging to the Scheduled Castes.
  - (ii) 7.5% for candidates belonging to the Scheduled Tribes.
  - (iii) 5% for candidates belonging to the Backward Classes.

The above reservation shall be subject the following conditions:

- (a) The number of students admitted on merit shall not be included in the number of seats reserved;
- (b) Members of Scheduled Castes/Tribes and Backward Classes shall be allowed a concession of 5% marks for admission to the course in which a certain percentage of minimum marks has been prescribed provided they have obtained minimum pass marks prescribed by regulations;
- (c) In case the seats earmarked of Scheduled castes/Scheduled Tribes remain unfilled, a further relaxation in marks may be given, in order of merit inter-se amongst the candidates themselves, so that all the reserved seats are filled by candidates belonging to these categories. This, however, will not apply for M.B.B.S. admission; and
- (d) A Scheduled Caste/ Scheduled Tribe person on migration from the State of his origin will not lose his status as Scheduled Caste/Scheduled Tribe but he will be entitled to the concessions/benefits admissible to the Scheduled Castes/Scheduled Tribes from the State of his origin and not from the State where he has migrated. (Regulation 29.1, P.U Cal. Vol-I, 2007 page 168).
- (iv) 3% seats will be horizontally reserved for persons or class of Persons with Disability (PwD)\* out of which 1% each shall be reserved for persons suffering from:
  - I. Blindness or low vision\*\*
  - II. Hearing impairment\*\*\*
  - III. Locomotor disability or cerebral palsy
  - a) If 3% of reservation of seats comes to 0.5 to 0.9, it shall be treated as one seat. However, if after calculating seats on the basis of 3%, the number of seats is divisible by 3, equal distribution of seats will be made for all the three categories. If after the division, any remainder is left, it shall be distributed on the basis of inter-se merit amongst all the three categories.
  - b) In the absence of availability of candidates in any of the categories, the seats shall be

interchanged inter-se.

- c) If seats reserved for Persons with Disabilities remained unfilled, it shall be treated in the sanctioned strength of seats for General Category.

The candidates under the Reserved Category of Persons with Disabilities shall be allowed a relaxation of 5% marks for admission to the courses in which a certain percentage of minimum marks has been prescribed, provided they have obtained minimum pass marks prescribed by the regulations.

\* Claimant in this category should be capable of pursuing the course for which the admission is sought. The Persons with Disability should have a minimum of 40% disability duly certified by the Medical Board of District/State/UT/Medical Institution of National Importance. Such certificate shall be further certified by the Medical Board of the Panjab University Health Centre.

\*\* Visually Handicapped would mean : Visual acuity of 6/60 with best correction in the better eye or any persons with visual fields of 20° or less in the better eye irrespective of the visual acuity”

\*\*\* Hearing Impaired means loss of sixty decibels or more in the better ear(sic) in the conversation range of frequencies”

(v) 5% on the basis of achievement in sports.

(vi) 5% (for all the under-mentioned categories taken together) for candidates who fall in one of following categories (which are given here in order of precedence):

1. Son/Daughter/Spouse of such Defence Personnel and CAPF Personnel<sup>1</sup> who died in action. (Only those who were wholly dependent on such personnel shall be considered).
2. Son/Daughter/Spouse as are wholly dependent on such Defence Personnel and CAPF Personnel who were incapacitated<sup>2</sup>/died while in service.
3. Defence and CAPF Personnel who were incapacitated while in service.
4. Son/daughter/spouse of ex-servicemen<sup>3</sup> who are wholly dependent on them.
5. Son/daughter/spouse of serving Defence Personnel and CAPF who are wholly dependent on them.
6. Ex-Servicemen
7. Serving Defence personnel and CAPF personnel

**Note** : Except in the case of admission to evening courses, categories 2, 4 and 5 under 2 (B) (VI) will not be considered, since the term “wholly dependent” will exclude such persons as are ‘employed’ or ‘self-employed’.

(vii) 2% for Sons/Grandsons/Daughters /Granddaughters/ Husband / Wife / Brothers / Sisters of persons killed/incapacitated in November, 1984 riots and of persons killed / incapacitated in terrorist violence in Punjab and Chandigarh. A Certificate from the District Magistrate to this effect must be submitted by the candidate. Migrant Card alone is not enough:

**Note** : In case there will be nay amendment /change in the existing clause, the same shall be notified and communicated to all concerned departments by the Deputy Registrar (Colleges).

(viii) 2% for the Children/Grand children of freedom fighters who have been sanctioned pension by

1. CAPF earlier known as Para-military forces, includes Assam Rifles(AR), Border Security Force(BSF), Central Industrial Security Force(CISF), Central Reserve Police Force(CRPF), Indo Tibetan Border Police(ITBP), National Security Guard(NSG), Sashastra Seema Bal(SSB) etc.

2. Incapacitation will mean incapacitation leading to the discharge of the person by authorities concerned.

3. Ex-serviceman means a person who has served in any rank whether as a combatant or non-combatant in the regular Army, Navy and Air Force of the Indian Union :

(i) Who retired from the service after earning his /her pensions; or

(ii) Who has been boarded knout of the service on medical grounds attributable to military service or circumstance beyond his control and awarded medical or other disability pension; or

(iii) Who has been released from the service as a result of reduction in establishment; or

(iv) Who has been released from the service after completing the specific period of engagement, (otherwise than at his own request, or by way of dismissal, or discharge on account of misconduct or inefficiency) and has been given a gratuity.

Territorial Army Personnel of the following categories shall also be considered as ex-servicemen :

a) Pension holders for continuous embodied service;

b) Disabled Territorial Army Personnel with disability attributable to military service;

c) Gallantry award winners.

Central/State Govt. or awarded Tamra Patra by Government of India (Synd. Para 15 dated 30-5-1997) or those who have been certified to be freedom fighters by the Centre/State Govts.

(ix) Any other statutory reservation as prescribed by the Govt. of India, if any.

## 2.2 Additional Seats including NRI (Non-convertible)

### (a) Wards of Kashmiri displaced persons

*(DR Colleges letter No. Misc./A-6/84247-84447 dt. 10.5.17)*

- (i) Relaxation in cut-off percentage upto 10% subject to minimum eligibility requirement.
- (ii) Increase in intake capacity upto 5% course-work.
- (iii) Reservation of atleast one seat in merit quota in technical/professional institutions.
- (iv) Waving off domicile requirements.

**Note: Seats in the above listed courses are subject to the norms of Regulatory bodies.**

### (b) Wards of Martyrs/permanently disabled in Kargil War

Concession be given for admission to various courses in Educational Institutions up to academic year 2020-21 only to those wards of martyrs/permanent disabled (up to 80% leading to incapacitation) of Kargil war who have a valid certificate from the Ministry of Defence to this effect and the same be entered in the pension Book of the family:

- 1) 1% seats with minimum of 1 seat in the Departments except in partially financed/self-financing courses.
- 2) Exemption in fee.
- 3) Exemption in hostel fee

### (c) 2 Seats under Supernumerary Quota

A quota of 2 supernumerary seats for each college/institute approved by AICTE, under General and Engineering streams would be provided, for which the students would compulsorily have to apply through the web portal of AICTE. Admission of students under the supernumerary quota would be as per their option, subject to merit. Centrally Funded Institutes/Colleges are NOT covered under the Supernumerary Quota.

### (d) One Girl Child out of the only two girl Children

- 1) Two additional seats **per unit per course subject to maximum limit of four (4)** out of the two girl children from the session 2015-16 are created for admission to a given course in the Panjab University Teaching Departments, Regional Centres provided they are otherwise eligible from all angles. The additional seats will be only for those girl Children who are either a single girl child of her parents or one amongst the only two girl Children with no male Child. The additional seat will be available to only one of the two girl children of a couple.
- 2) An undertaking to be obtained from the parents of the girl children declaring therein that the benefit of this scheme is being claimed for only One Girl Child out of the two girl Children and the parents shall not claim the same for the 2<sup>nd</sup> girl child elsewhere in future.

### (e) Cancer, AIDS and Thalassemia:

One additional seat each for the student suffers from Cancer, AIDS and Thalassemia has been allowed for admission in each course in the Panjab University Teaching Departments, Regional Centres subject to the condition that the candidate seeking admission under each of these categories if otherwise eligible from all angles. The claimant candidate will have to submit a certificate, as a proof from the National Medical Institute like PGI, AIIMS etc., in support of his/her claims.

### (f) Two Additional Seats for Rural Area Students

Only those candidates will be considered in this category, who have passed their Matriculation and +2 examination from those rural schools that do not fall in the area of the Municipal Corporation/Municipal Committee/Small Town/Notified Area/Cantonment Area. Further, the candidates should have been studying in such school for atleast five years before passing the last examination. A candidate claiming such benefit will have to produce a certificate from the D.E.O./Principal of the concerned institute of the area certifying that the school from where the candidate has passed the Matriculation and +2 examination, falls within the aforesaid rural area.

**(g) One Additional seat for Border Area Students**

The Border area students shall mean those candidates who have passed their Matriculation and +2 examination from the Border Area Schools situated within 20 kilometres from the International Border. A candidate claiming such benefit will have to produce a certificate from the Tehsildar or the Principal/Headmaster/Head of the School certifying that the School from where the candidate has passed the matriculation and +2 examination, falls within the aforesaid Border area.

**(h) One Additional Seat for Youth Festival**

In all the teaching courses (except the courses governed by AICTE / NCTE / BCI / MCI / DCI etc.) being run in the Panjab University Campus including constituent colleges / regional centres, one additional seat is reserved per unit for those candidates who have excelled and outperformed by their participation in the Youth Festivals. The candidate availing the aforesaid facility must fulfil the eligibility condition for admission to the particular course. For those courses to which the admission is to be done on the basis of entrance test, the candidate must have passed the entrance test. The selection of such candidates for admission to various courses at PU Campus/ regional centres / constituent colleges, will be made by the respective admission committees. For recommending admission on the basis of youth festival participation, admission criterion will be fixed on the basis of merit as mentioned below and upon the verification of the original certificates of those candidate, who :

- (A) have presented an item in an international cultural festival approved by Punjab Govt. /Govt. of India / Panjab University.
- (B) have got distinction in All India National Inter University Youth Festival organized by AIU / Govt. of India
- (C) have got distinction in North Zone Inter University Youth Festival organized by AIU.
- (D) have secured first/second/third position in Inter University Youth Festival organized by Govt. of Punjab/ any State or Central University .
- (E) have secured first/second / third position in Panjab University Inter Zonal Festival.
- (F) have secured first /second /third position in Panjab University Zonal festival
- (G) have secured first/second/ third position in state level competition of State School Education Board of Punjab/ Haryana / HP/ or CBSE/ICSE or any other recognised board
  1. Category A is considered as highest category followed by B , C .... onwards .
  2. Preference will be given to the candidate who represented Panjab University Chandigarh in A, B, C and D category
  3. Achievement(s) only during the preceding 3 years of the year of the admission will be considered

In case two or more candidate have equal position at equal level then :

- i. Position secured in an individual item shall be rated higher as compared to as a team.
- ii. The eligibility of the candidate for participation in university youth festivals, in future, may also be considered.
- iii. Academic record may be considered in case of tie between two or more candidate.

In case of any ambiguity, the related certificates be got verified from the Department of Youth Welfare through the concerned Chairperson / Principal / Head etc.

The candidate admitted on the basis of youth festival additional quota seats shall have to give an assurance to the university authorities that during the duration of the course the candidate will participate in the activities associated with his item and will not create any kind of indiscipline. The admission committee will assess the participation of the candidate and in case the candidate does not fulfill the requirements, his admission may be cancelled. However, exemption can be given because of a special reason like sickness or any other unavoidable reason in inter varisty Youth Festivals, National Festivals and International Festivals.

**(i) Non-Resident Indian (NRI)**

Only the following categories of students or candidates will be eligible or entitled for consideration for admission in the NRI Quota:

- i) Persons of Indian Origin who are citizens of countries other than India and hold the passport of the country concerned.

- ii) Overseas Citizens of India.
- iii) Children, i.e., sons/daughters of Persons of Indian Origin (who may, or may not, be citizen of countries other than India), or of Overseas Citizens of India, provided they have resided in a country other than India for a minimum period of three years immediately preceding the year of admission in the University.
- iv) The eligibility or entitlement under clauses (ii) and (iii) above would extend also to grandchildren, whose parents are not alive or, at least, whose father is not alive at the time of seeking admission in the University, and who can, therefore, be treated as being “wards” of their grandparents who are Persons of Indian Origin (who may, or may not, be citizens of countries other than India), or Overseas Citizens of India, provided such grandchildren have resided in a country other than India for a minimum period of three years immediately preceding the year of admission in the University.

**Explanation:**

- a) The aforesaid condition of residence for a minimum of three years in a country other than India prescribed in Clauses (iii) and (iv) above means actual/physical residence on a regular basis. Notional, deemed or constructive residence of any kind shall not be considered for this purpose. Accordingly, the possession of a Green Card will *ipso facto* not confer eligibility or entitlement for admission.
- b) The expression “Overseas Citizens of India” in Clauses (ii) to (iv) above refers to persons registered as such under Section 7-A of the Citizenship Act, 1955 as amended up-to-date.

It is made clear that no person other than persons falling under Clauses (i) to (iv) read with Explanation (a) and (b) above will be eligible for or entitled to admission in the NRI quota.

For the Academic Session 2017-18, there will only be NRI Category, admission under which will be made as per the above-listed eligibility criteria. However, admission of **Foreign Nationals** will be considered only if the case has been sent to Panjab University by Indian Council for Cultural Relations (ICCR) or any Ministry of Govt. of India subject to the condition that the Foreign National is eligible to seek admission as per the regulations of the course. The seats for the eligible Foreign Nationals will be additional to the already notified seats, subject to maximum of 5% of the total sanctioned seats of the course.

**The above listed Additional Seats (a) to (i) will be available subject to the clearance from regulatory agencies such as AICTE, NCTE, MCI, DCI, BCI, PCI, AERB etc.**

**Explanation for calculation of category-wise seats and rounding off of fraction:**

While working out the percentage of seats in the Reserved Categories as given above, if the number arrived at contains a fraction, this shall be resolved as follows :-

If the fraction is 0.5 or more, it shall be rounded off to 1; if it is less than 0.5, it shall be ignored. This shall, however, not affect the total number of seats in the General Category. To ensure this, if the total number of seats after making this adjustment, exceeds the prescribed number fixed for the course, the necessary additional seats shall be created with the prior permission of the D.U.I./Vice-Chancellor. Such seats, if created, shall be treated as additional only for the year in question.

**Illustration: In a course which has 25 seats, the distribution of seats among the various Categories will be as under:**

General	SC	ST	BC	Sports	Defence	Persons with Disability	Riot/Terrorist Victim	Freedom Fighter	Total
55.5%	15%	7.5%	5%	5%	5%	3%	2%	2%	
14	4	2	1	1	1	1	1	1	26

If the total number of seats is increased to 26 (as above), the 26<sup>th</sup> seat will be treated as an additional seat in the course for that year only. The additional seat, if required to be created, shall be created only for the Reserved Category and not for the General Category. Such additional seat, if remains unfilled, will not be converted to General Category.

**3. Eligibility Conditions**

For admission under any of the categories, General or Reserved, as given above, a candidate must be eligible to seek admission. Eligibility shall mean the candidate’s possessing the minimum qualifications as laid down in the relevant regulations contained in the Panjab University Calendar, Volume II, 2007 including amendments made therein from

time to time and in the Handbook of Information 2017. For such courses admission to which is based wholly or in part on an entrance test/aptitude test, eligibility shall also mean the candidate's having taken the test and qualified it.

### 3.1 The following are not eligible for admission to M.A. courses in the Faculties of Arts and Languages:

- a) If a student fails to pass M.A. Part/Semester-I or fails to appear in the examination even though he/she had requisite attendance, he/she be not allowed to seek re-admission in the Department for M.A. Part/Semester-I in the same subject. Such a student can appear in the same examination as a private candidate as prescribed under the University regulations;
- b) If a student fails to meet the prescribed attendance requirement, and is, therefore, debarred from sitting in the examination, or does not on his/her own violation seek permission to sit in the examination he/she should be deemed to have failed in the examination;
- c) If a student fails to earn promotion to the M.A. Part-II or the next semester of M.A. for any of the reasons specified in Paras (a) and (b) above for two successive years in the same or two different Departments, he/she should be debarred from seeking admission in any Department in the Faculties of Arts and Languages for the next two years;
- d) In order to ensure the implementation of the above conditions, the columns given in the Admission Form, seeking information from the applicant on the course(s) attended by him/her in the preceding three years, must be filled by him/her.

If he/she leaves these columns blank, the Admission Form will be rendered invalid and if he/she makes mis-statement or conceals relevant facts, his/her admission will be cancelled and legal action can be taken against him/her.

### 4. Inter-Changeability and Transfer of seats

- a) In the Reserved Categories given at (i) and (ii) under paragraph 2(B), i.e. Scheduled Castes and Scheduled Tribes, the seats shall be regarded as 'interchangeable'. That is to say, if sufficient number of eligible candidates are not available to fill up the seats reserved for Scheduled Tribes, seats may be filled up from among the eligible candidates belonging to the Scheduled Castes, and vice-versa.
- b) The seats in the Reserved Categories (SC/ST/BC/SP/Def/PwD/TV/FF) which remain unfilled shall be transferred to General Category subject to the condition that the waiting list of each Reserved Category has been exhausted on **12.08.2017 (Saturday)** or on an earlier date notified in the Schedule of Admission of a specific course. Any seat created in the Reserved Categories because of rounding off fraction shall stand cancelled and shall not be converted to General Category.

Note : The Departments where admission is based on Entrance Test/Aptitude Test, seats in reserved categories be included in the General Category right from the beginning of admission in case there were no candidate belonging to these categories having qualified the Entrance Test were available.

- c) If a candidate gets admitted under Reserved Category and is also placed on the consolidated waiting list of General Category and gets a General Category seat on merit, the seat shall be offered to him/her (subject to the condition that the candidate of SC/ST/BC/PwD categories fulfill the minimum eligibility requirement of General Category and must not have availed of relaxation in eligibility marks) and his / her Reserved Category seat shall fall vacant and shall be offered in order of merit to the next candidate of the Reserved Category.

### 5. Admission based on JEE & CAT

- a) The Entrance Test conducted by CBSE (JEE) Mains in 2017 for the following courses : B.E. (Chemical), B.E. (Food Technology), B.E. (Biotechnology), B.E. (Electronics & Communication), B.E. (Computer Science Engineering), B.E. (Information Technology), B.E. (Mechanical), B.E. (Electrical and Electronics) and Five year Integrated Course B.E. with M.B.A.
- b) Admission to M.B.A., M.B.A. (International Business) & M.B.A. (Human Resource) is based on CAT 2016 and Group Discussion and Personal Interview.
- c) Departments may conduct a test as part of admission process with the prior permission of the competent authority.

### 6. Preparation of Merit Lists / Normalisation of Marks

Admission to both the (General and Reserved) categories of seats shall be on the basis of merit within each category

and the merit list shall be prepared as per these Rules.

The basis for preparation of the provisional merit list shall be as follows:

Marks of other Universities will be normalized to 2400 marks which are 3 years aggregate marks of B.A./B.Sc. (Gen.) of Panjab University. Similarly marks obtained by the candidates in the relevant subject will be normalized to 600 marks which is the total of 3 years aggregate marks of B.A./B.Sc. (Gen.) of elective subjects of Panjab University. The normalization procedure is explained below:-

- (a) The marks obtained by a candidate in B.A./B.Sc. will be normalized on the basis of an aggregate. For example, if a student has scored 495 marks out of total of 900 marks in B.A./B.Sc., his normalized aggregate marks (out of 2400) would be :-  $495 \times 2400/900 = 1320$  out of 2400

These marks will be denoted by **X** and called the **Basic Merit Marks**.

- (b) The marks in the relevant subject (i.e., the subject in which the admission is sought) will be normalized by changing the marks allotted to the relevant subject to 600 in order to give advantage of the subject to a candidate. For example, if a candidate has obtained 240 marks out of 300 in the relevant subject, then the normalized marks in the subject would be :  $240 \times 600/300 = 480$  out of 600

These may be denoted by **Y**.

Some universities award B.A./B.Sc. degree on the basis of aggregate marks of B.A./B.Sc. 2<sup>nd</sup> and 3<sup>rd</sup> years. In that case the aggregate marks and the marks of the relevant subject in which the applicant is seeking admission, will be considered on the basis of marks obtained in B.A./B.Sc. 2<sup>nd</sup> and 3<sup>rd</sup> years only for calculation of the basic merit marks and in the relevant subject.

In some cases, there could be students who have not studied the relevant subject, or the study of the subject is too elementary to be equated with the standard of B.A./B.Sc. level of Panjab University in the subject in which they are seeking admission in Post-graduate course. For such category of students **Y** is taken to be zero.

Candidates having passed B.A./B.Sc. from other universities with 4 elective subjects in addition to optional subjects at B.A./B.Sc. level shall not be given any credit under **Y**, i.e. **Y** shall be taken to be zero.

- c) (i) Candidates who have passed B.A./B.Sc./B.Com. with Hons. Either from Panjab University or from any other University would be **given 15% weightage** of the basic merit marks **X** obtained for the purpose of admission in Post-graduate course in the subject in which Honours examination was passed. Similar weightage would be given to candidates who have passed B.A./B.Sc./B.Com. examination according to Hons. Like system specializing in one subject in which the admission is sought for the P.G. course.

Explicitly this weightage would be denoted by **Z** and calculated as follows :

$$\mathbf{Z} = \mathbf{X} \times 15/100$$

- (ii) Candidates who have passed a Special Degree from another University will be treated at par with B.A. Examination of Panjab University with Honours in the relevant subject provided the B.A. Special Degree is recognized as equivalent to the corresponding B.A. with Honours Degree of Panjab University in the relevant subject.

- (d) Where no test is required for admission, the **final Merit marks** of a candidate would be **X+Y+Z+ other weightages** as prescribed at 12.1 and 12.2. Other weightages as prescribed at 16.1 and 16.2 would be calculated on the basic merit marks **X**.

- (e) The process of calculation of percentile score for admission to B.Sc (Hons.) and B.Pharma courses will be as follows:

For the B.Sc. (Hons.) admissions, the final merit should be prepared on the basis of merit consisting of three components (i) CET merit with weightage 75 %, (ii) 10+2 examination merit with weightage 25 %, and (iii) over and above weightage of NCC, NSS, etc.

For preparing the combined merit of CET for the two streams of students with (i) Physics, Chemistry and Mathematics combination and (ii) Physics, Chemistry and Biology combination, the two streams should be evaluated independently. The final merit list for the admission to B.Sc. (Hons.) under the framework of Honours System should be prepared by adding (i) CET percentile score with 75 % weightage, (ii) 10+2 examination marks with 25 % weightage, and (iii) over and above weightage of NCC, NSS, etc. in terms of marks.

The CET percentile score (P) for the qualified candidates from the two streams (i) and (ii) will be calculated separately using the formula



$$P = \left[ \frac{N - R}{N} \right] \times 100$$

where R is the rank of the candidate in the merit list of that stream and N is the total number of candidates appeared in that stream. For example, if the number of candidates appearing in a stream (i) is 4000. For a candidate ranking at 485<sup>th</sup> position in the merit of stream (i), the percentile score of the candidate will be  $P = \left[ \frac{4000 - 485}{4000} \right] \times 100 = 87.875$

The final combined merit list for the two streams will be based on

Total merit marks = 0.75\*P + 0.25\*Q + weightages for other activities;

where P is the CET percentile score, Q is the percentage marks obtained in the 10+2 examination. Weightages for activities like NCC, NSS etc. as mentioned in the handbook of information, if any, will be calculated on the qualifying examination (10+2 class) marks. Total merit marks will be calculated up to third decimal place. Any changes in the marks of the qualifying examination (10+2 class) or other weightages in any case will simply change the total merit marks of that student and merit list will be updated accordingly.

7. **Eligibility for promotion in B.Sc. (Hons.) and M.Sc. (Hons.) courses:**

- (a) The candidates of B.Sc. (Hons.) shall have to qualify the minimum 50% of the total papers / credits at the end of the 2<sup>nd</sup> and 4<sup>th</sup> semesters to be promoted to next semester.
- (b) The candidates of M.Sc. (Hons.) shall have to qualify the minimum 50% of the total papers / credits for promotion to next semester.

**Note :** A candidate can take admission in M.Sc. (Hons.) only if he/she qualifies in all the papers of six semesters of B.Sc (Hons.).

8. **Admission to M.A. Semester-I on the basis of Master's Degree examination in another subject or in another Faculty:**

If the eligibility is to be determined on the basis of M.A. Degree, then merit is to be determined on that basis alone. Weightage will not be given for the relevant subject on the basis of marks obtained in Graduation.

9. **Compartment Candidates**

A candidate who has been placed under compartment in one subject in B.A. Third Year examination of this University shall be allowed to join M.A. First Year (Semester System) class provisionally if he/she fulfils other requirements and provided-

- (i) that the re-appear is not in the subject in which he /she is seeking admission in M.A.; and
- (ii) If he/she fails to clear the compartment subject of the B.A. Third Year examination in the next two consecutive chances immediately following the examination in which he/she was placed under compartment, his/her provisional admission to M.A. First Year (First and Second Semesters) examination shall be cancelled.

10. **Admission to M.A. Semester III for candidates who have passed their M.A. Semester I & II examination (other than the regular students of Teaching Departments of Panjab University):**

The vacant seats in each category shall be filled by the respective Board of Control on merit provided that any candidate so admitted shall have secured marks in Semesters I & II not less than the marks of the last candidate in the merit list of students promoted by the Department from M.A. Semester II to Semester III and the outside candidate (other than the regular student of respective Department) having Reappear/Compartment will not be considered for Admission to M.A. Semester-III.

11.1. **Weightages:**

The following weightages shall be given, wherever applicable, on the normalized aggregate marks arrived at or on academic weightage determined for qualifying examination for courses covered under the Entrance Test.

- A. 5% of the marks thus obtained by such candidates as have passed the qualifying examination from Panjab University. **This weightage will not be applicable for admission to such courses where admissions are made only on the basis of competitive/entrance test.**
- B. Up to a maximum of 4% for distinction in any or all of the following co-curricular activities, achieved in any of the 3 years preceding to the year of admission.



- (ii) For making 4 students literate : Credit point=0.65%  
 (iii) For making more than 4 students literate : Credit point=1.00%

Persons claiming credit on this account will obtain the desired certificates from the Director, Centre for Adult Continuing Education, Panjab University, Chandigarh.

*(Vide Syndicate Para 16, dated 16-5-1987)*

C. Any other weightage approved by the D.U.I./Vice-Chancellor.

A candidate can claim weightage in one or more categories given above. However, the total weightages allowed shall not exceed 9% of the normalized marks obtained in qualifying examination.

**These weightages shall not be used for determining eligibility for admission as prescribed under the Regulations of each course.**

**11.2. Additional weightages will be available to the following categories of candidates as indicated :**

**(i) M.P.Ed.**

- |    |   |          |
|----|---|----------|
| a) | A person getting any of the first three positions in the Olympic/World Game/ Commonwealth Game/ World Cup Tournaments /Asian Games.       | 50 marks |
| b) | A person representing India in the above said games/Tournaments   | 40 marks |
| c) | A person representing India in official test matches abroad and within the country  | 30 marks |
| d) | 1 <sup>st</sup> position in All India Inter-University/Senior National approved games competition conducted by the respective Federations | 20 marks |
| e) | 2 <sup>nd</sup> position in the above said competitions.  | 15 marks |
| f) | 3 <sup>rd</sup> position in the above said competitions   | 10 marks |
| g) | 1 <sup>st</sup> position in Zonal Inter-University competitions   | 9 marks  |
| h) | 2 <sup>nd</sup> position in the above said competitions   | 8 marks  |
| i) | 3 <sup>rd</sup> position in the above said competitions   | 7 marks  |

**(ii) B.P.Ed.**

- |    |   |          |
|----|---|----------|
| a) | A person getting any of the first three positions in the Olympic/World Games/ Commonwealth Game/ World Cup Tournaments/ Asian Games.        | 50 marks |
| b) | A person representing India in the above said games/Tournaments.  | 40 marks |
| c) | A person representing India in official test matches aboard and within the country  | 30 marks |
| d) | 1 <sup>st</sup> position in All India Inter-University/Senior National approved Games/ competition conducted by the respective Federations. | 20 marks |
| e) | 2 <sup>nd</sup> position in the above said competitions.  | 15 marks |
| f) | 3 <sup>rd</sup> position in the above said competitions.  | 10 marks |
| g) | 1 <sup>st</sup> position in the Zonal Inter-University competitions   | 9 marks  |
| h) | 2 <sup>nd</sup> position in the above said competitions   | 8 marks  |
| i) | 3 <sup>rd</sup> position in the above said competitions   | 7 marks  |
| j) | 1 <sup>st</sup> position in the Inter College/State approved Games/ competitions  | 6 marks  |
| k) | 2 <sup>nd</sup> position in the above said competitions.  | 5 marks  |
| l) | 3 <sup>rd</sup> position in the above said competitions.  | 4 marks  |

**Note:** Only one highest admissible position will be considered for giving Weightage listed above.

**12. Resolving of ties:**

In the case of a tie at any stage in the preparation of the merit list, candidates securing equal marks will be bracketed together. Their inter-se-merit will be determined according to the following criteria:

- (i) A candidate getting higher percentage of marks in the qualifying examination shall rank higher in order of merit.
- (ii) That if the marks in qualifying examination are also the same then the candidates obtaining more marks in the immediate lower examination, shall rank higher in order of merit.

- (iii) That if two or more candidates secure equal marks in (i) & (ii) above, the candidate senior in age shall rank higher in the order of merit.

**Note:** When the provisional lists of candidates (based on merit) are displayed on the Notice Board, the Chairpersons shall mention the fact that this list is subject to change on account of improvement of result of the qualifying examination wherever applicable. The new result must be presented at the time of interview/operating of the waiting list.

**13. COUNSELLING:**

All the candidates whose names appear on the Provisional Merit List shall have to appear in person, on the notified date(s) of Counselling, before the Board of Control of the subject concerned or a Committee of the Board of Control constituted by the D.U.I/Vice-Chancellor. **Physical presence in the counselling is mandatory for all the candidates** on the notified dates. All those candidates who attend the counselling are required to mark their attendance in each counselling. Only those candidates who report and mark their attendance on the day(s) of counselling shall be considered for admission during the filling up of vacant seats. The candidates must produce all the relevant certificates (in original) for checking / verification at the time of Counselling, failing which they will not be considered for admission.

The requirement of marking of attendance does not apply to the counsellings of PU-CET (UG) and MDS. This requirement does not apply even to all such counselling(s) which are jointly handled by partnering institutions who will notify their own process of counselling.

**14. Preparation of Merit List of Selected Candidates /Waiting List:**

After interacting with the candidates in the Counselling and taking into account all the criteria of admission applicable (for instance, the scores, plus weightages, or the addition of the score of Admission/Aptitude Test, Group Discussion, Personal Interview, wherever applicable) each Department/Centre/Joint Admission Cell shall prepare the Merit List of Selected Candidates and Waiting List which will carry the names of waitlisted candidates (category-wise) in order of merit (to be approved by the DUI). These lists shall be signed by each member of the Board of Control/Committee of the Board of Control/Joint Admission Cell (approved by the D.U.I.), certifying that these lists have been prepared in order of merit and the relevant rules and regulations as laid down have been followed.

The Department/Centre/Joint Admission Cell shall then send the following lists (in duplicate) for the D.U.I.'s approval:

- i. Provisional Merit List of all candidates category-wise;
- ii. Merit List of Selected Candidates recommended for admission (category-wise) in the order of merit;
- iii. Waiting List carrying the names of the waitlisted candidates (category-wise) in the order of merit including the names of the candidates who have been listed at the top of the Waiting List as Late Applicants, if any;
- iv. Attendance of all the candidates taken at the time of counselling(s).

If a candidate, whose name is on the Provisional Merit List and is denied admission while a candidate below him is selected, the reasons for admission being denied shall be recorded and such a case shall be brought explicitly to the notice of D.U.I.

**15. Admission of candidates whose result is revised as a consequence of re-evaluation or otherwise late declaration of result, can be made only if:**

- i. Seat is available;
- ii. Candidate is higher in merit than the candidate in Waiting List;
- iii. The request is made before the last date for late admission with the prior approval of the Vice-Chancellor as already laid down.

The following Rule in the P.U. Cal. Vol. III, 2016 at page 489 will be followed in case of re-evaluation cases:

If as a result of re-evaluation, a candidate passes at the Exam., he/she shall be eligible to seek admission to the next higher class within ten working days of the communication of re-evaluation result to him/her. His/her attendance shall be counted from the date of his/her admission. However, no candidate would be granted admission on the basis of re-evaluation result after 31<sup>st</sup> December of the academic session. In the case of admission to a course having Semester Exam, the date will be October 15.

In case of ongoing classes, each student whose result of the lower semester/class has not been declared, shall have to seek provisional admission with an undertaking to the effect that his/her admission shall stand cancelled if he/she fails to meet the eligibility requirement(s) for promotion to the next higher semester/class as per the rules and regulations of the course. The date of start of teaching of ongoing classes shall be notified by the Dean of University

Instruction and the counting of attendance for the purpose of calculation of shortage of lectures will be made from the above-said notified date of start of teaching. If the candidate, whose result of lower semester/class has not been declared, seeks the provisional admission after the start of teaching, his/her attendance will be counted from the notified date of start of teaching and not from the date on which he/she seeks provisional admission. The candidate after the declaration of result of lower semester/ class will have to deposit the due fees within ten days of such declaration in order to get his/her admission confirmed.

*(Syndicate Para No. xliii of 30.04.2017)*

**16. Revision of Merit and placement of applicants:**

The requirements of Rule 13 for physical presence and marking of attendance in the counselling(s) will not be applicable to a candidate whose result has been declared late. However, requirements of Rule 13 shall become operative after this, i.e., the candidate will have to mark his/her attendance in the Counselling.

A candidate whose merit is revised consequent upon the late declaration of result after the conclusion of counselling, and his/her revised merit falls among the selected candidates in the category-wise Merit List, his/her name be placed at the top of the Waiting List.

*(Syndicate Para 40, dated 12-3-2005)*

**17. Rejection of incomplete Admission Form:**

The Board of Control/Committee of Board of Control/Joint Admission Cell shall reject the Admission Form which it regards as incomplete. Reasons for rejection must be recorded on the Admission Form.

**18. Cancellation of Seat/Admission**

Admission of all such students who fail to attend atleast 33% of the total lectures delivered and practicals held in all the papers during the first 10 working days from the start of teaching work in the course concerned shall be cancelled by the Board of Control/Joint Admission Cell after following the procedure given below :

- a) By the 12<sup>th</sup> day after the start of classes for a particular course, the names of those students who fail to attend at least 33% of the total lectures / tutorials / practicals etc. shall be put up on the Notice Board and online Notice Board of the Department and also send a copy of the same to the office of the DUI. Within 4 days of the date of such notice, a student who is short of attendance may give in writing the reasons for his absence from the classes.
- b) If a student does not submit an application in writing within the prescribed time as stated above, or the reasons adduced by the student in his application are not found to be sufficient and justified in the opinion of the Board of Control/Joint Admission Cell, his admission shall be cancelled.
- c) All the seats thus falling vacant shall be filled strictly in the order of merit from the waiting list or through subsequent counselling before the expiry of the last date fixed for admissions by the University.
- d) When the admission of the student(s) is cancelled as stated above, the Department shall display on the Notice Board and online Notice Board, the list of the person(s) next in the waiting list and make admissions accordingly.
- e) Approval of cancellation of admission and permission to fill up the cancelled seat(s) to be sought from the DUI

**Note:** It is obligatory on the part of Departments to display vacant seats on the Online Notice Board of the Department. The candidates are advised to regularly browse the website.

**19. Admission for late applicant with high merit:**

This Rule shall be applicable only to those courses where hardcopy of the Admission Form is to be submitted along with the photocopies of testimonials in the concerned Department and the Admission Form is received after the last date of submission but not later than the date(s) of first counselling. In such a case, Board of Control/Admission Committee/Joint Admission Cell shall admit the late applicant in the General/Reserved/Additional Category (with the prior approval of the DUI/ Vice-Chancellor) but only if his/her merit falls in the merit of the first 25% of the applicants appearing in Merit List of Selected Candidates.

**20. Checking of Certificates:**

All self-attested copies of the original certificates/testimonials submitted by the candidate alongwith the Admission Form in support of the claims, shall be checked against the originals at the time of Group Discussion/Personnel Interview/Counselling. For the marks obtained, the original certificates shall be ones issued by the University/

Board concerned only, and **NOT** by any Principal of a School/College. In case, a candidate happens to have surrendered the original certificate to an institution/office, for admission or for re-evaluation etc. then the candidate has to produce a certificate to the effect issued by the Institution in which such certificate(s) have been deposited / acknowledgement slip confirming the deposit of original certificate(s) may be considered, after a satisfactory explanation from the candidate in writing. Admissions based on such certificates shall be treated as provisional.

The Character Certificate submitted by a candidate shall be from the Head of the Institution/ University Department last attended irrespective of the gap in studies, if any.

A certificate/undertaking, submitted by the candidate in support of a claim, should be in the format given in the Handbook of Information 2017 for admission purposes. A certificate/undertaking in a format other than the prescribed one shall be rejected.

21. **Gap year(s):**

Candidates whose career reflects a gap of year(s) between passing of the last examination and the year in which admission is being sought, they are required to furnish, at the time of application, an undertaking to the effect that they were not involved in any offence/unlawful activities during the year(s) of gap. The Board of Control/Joint Admission Committee shall satisfy that, during this gap period, the candidates were not involved in any offence/unlawful activities.

22. **Verification of SC/ST Certificates:**

The admission of the SC/ST candidates producing the requisite certificates of being SC/ST for admission in various courses at this University be made provisional subject to verification of the certificates from the issuing authority by the Chairperson of the department concerned, as required in the UGC letter circulated by D.R. (Academic/Colleges) vide his Endst. No. 5201-5350/Spl. Cell/SC/ST dated 30-9-1991.

23. **Medical check-up:**

A candidate selected for admission is required to submit a Medical Certificate of Physical Fitness as per the proformas contained in Handbook of Information 2017/Prospectus released by a Department/Institute/Centre for admission purposes. This certificate is a pre-requisite for the confirmation of the admission. Students should approach the C.M.O.'s Office on the prescribed date(s) only after obtaining admission slip from the Department and after paying the prescribed Medical Fee.

24. **In the event of any difference in the interpretation between Handbook of Information & Rules of Admission 2017 or various Prospectuses of admission published separately, the matter shall be referred to D.U.I./ V.C. whose decision shall be final.**

Further, in preparation of the Merit List if there are cases which are not covered in these rules, the same may be referred with factual details along with the recommendations of the Board of Control for consideration to the D.U.I./ V.C whose decision shall be final.

**Dean of University Instruction**

## 25. GUIDELINES FOR ADMISSION TO THE RESERVED CATEGORY OF SPORTS INCLUDING SPECIMEN OF SPORTS CERTIFICATE

Five percent seats of the total number of seats in each course are reserved under this category. No benefit on the basis of sports shall be given to candidates not applying for admission in this category.

1. Each candidate applying for admission in this category shall, along with the admission form, submit the following documents to the concerned department and photocopy of one complete set of admission form, along with all relevant documents after paging all the documents, in the office of the Campus Sports, (Gymnasium Building, Jawaharlal Nehru Complex), P.U. Chandigarh before the last date of submission of admission form. If the candidate fails to submit the form complete in all respect in the concerned department or in the office of the Campus Sports, his candidature will be rejected.
  - a) Self attested photocopies of sports certificates with photograph duly attested by the respective issuing authority or Head of the Institution of last attended.
  - b) Self attested photocopies of Class 10<sup>th</sup>, 10+2 and Bachelor's Detailed Marks Certificate
  - c) Undertaking of sports achievements (**Annexure-I**) and attendance in sports grounds (**Annexure-VI**)
  - d) Roster form/list of players/ competitors of the concerned tournament duly attested by the respective issuing authority or Head of Institution of last attended.
2. The DUI has the authority to cancel admission at any time, if it is found that the candidate has obtained such admission on the basis of a false certificate or incorrect statement/record.
3. Candidates seeking admission under this category will be considered for admission only in the games and disciplines in which the Panjab University sends its teams for participation in the Inter University Tournaments (for the inclusion of such games and disciplines see **Annexure-II**).
4. Reservation under Sports Category is meant only for those active sportspersons<sup>1</sup> who would participate in the Campus, University, State, National, International level sports tournaments. Such candidates will be considered for admission only if:
  - i) Their achievement in sports relates to their activities in any of the three years immediately preceding the year of admission<sup>2</sup> (relaxable to 4 years in exceptional cases, on merit, for outstanding sportspersons<sup>3</sup>).
  - ii) They are otherwise also eligible for participation in Inter College, Inter University Tournaments for at least one year as per Association of Indian Universities rule. 2017-18. (<http://www.aiu.ac.in/>)
  - iii) The candidate qualifies in the sports trials i.e. General Physical Fitness Test and Sports Performance Test in the concerned game. It is essential to qualify in the General Fitness Physical Test as per the rules laid in (**Annexure III**) for appearing in Sports Performance Test.
  - iv) No document including Undertaking etc. will be accepted after the last date of submission of Admission Form by the Campus Sports Department. However, in case any sportsperson earns any achievement up to June 30, 2017, he/she may submit supplementary copy of the document to the Campus Sports Department along with additional Undertaking.
  - v) Sports participation in the same game in two different competitions (irrespective of the event) is essential for the candidates seeking admission under this category within the prescribed period of three years i.e. from **1<sup>st</sup> July, 2014 to 30<sup>th</sup> June, 2017**. The merit for admission in Sports category will be purely on the basis of gradation criteria given in **Annexure-IV** however the minimum level of sports participation to be considered for supporting certificates will be Inter School/ Inter College/Cluster/District/ State Level participations
5. A committee constituted by the Vice-Chancellor shall screen/evaluate the applications, General Physical Fitness and Sports Performance Test of the candidates applying under this category by holding actual sports trials on the play

1. Means a person attending the grounds regularly so as to appear himself for participation in the Inter College and Inter University tournaments. However, his/her age falls within the age group which is eligible for participation in Inter College/Inter University Competition

2. Preceding three years means from 1st July 2014 to 30th June 2017

3. Securing first three positions in All India Inter University/Senior National Championship/National Games/ Participation in International competition at Senior or Junior level recognized by respective National Federation, Indian Olympic Association/ Ministry of Youth Affairs & Sports/International Olympic Committee/BCCI

fields and recommend admission on the basis of their performance as per P.U. rules and Schedule of Trials given in **Annexure-V**. Only such candidate will be allowed to appear for the actual sports trials, whose application is found in conformity with the requirements/qualifications mentioned in the Guidelines by the Campus Sports Department. Candidates are to appear for sports trials in proper sports kit with all the original sports certificates and required academic certificates.

6. The Campus Sports Department, Panjab University, shall take an undertaking (**Annexure-VI**) from the candidates that they will attend the grounds regularly and must have 75% attendance in the sports ground and would also participate in the Inter College, Inter University, State, National and International sports tournaments. Their admission should be liable to be cancelled if the terms of the undertaking thus given are not adhered to.
7. The order of precedence in the selection of candidates for admission will be as per **Annexure-IV**.
  - i) A candidate falling under category 'A' shall be placed higher in merit than a candidate falling under category 'B'. Similarly, a candidate falling under category 'B' shall be placed higher in merit than a candidate falling under category 'C' and so on.
  - ii) Likewise, within each category a candidate falling in category 'A' (1) will be placed higher in merit than a candidate falling in category 'A' (2) and so on.
  - iii) A candidate who attains first position in a competition shall be rated higher in merit than the one who gets second position in a competition of the same level. Similarly, second position will be rated higher in merit than the third in the same level of competition and so on.
  - iv) If there is a tie within the same category, the tie shall be resolved by considering the "academic merit" i.e. as per admission criteria of the concerned department and even then if there is tie, it will be resolved by the seniority in age i.e. date of birth of the candidate and such tie will be resolved by concerned department in which candidate applied for admission.
8. The inter-se merit of the candidates seeking admission to any course under the reserved category of sports shall be determined only on the basis of their merit in Sports as per grading criteria in **Annexure-IV**.
9. The case of sports person with achievements in games/disciplines not included in **Annexure-II** but excelling<sup>4</sup> at International level and the cases of sports persons excelling at International Level who are otherwise not eligible as per AIU rules due to age bar shall be recommended by the Dean of Student Welfare and may be considered by the Vice-Chancellor for admission to a particular course by creating an additional seat to the extent of 2% seats in the respective course. These additional 2% seats will be granted subject to the approval of the regulatory authority i.e. NCTE/Bar Council/Dental Council etc. These seats be given as being in addition to the approved strength of the course in that year only. But if the seats are vacant in the 5% reserved category of sports then the vacant seats will be offered to the applicants under 2% additional sports seats. Sports persons wishing to avail Clause 9 should submit a separate application along with the concerned Department's Admission Form.
10. It is mandatory to participate actively in all sports competitions, if selected, and at least 75% attendance in Panjab University sports grounds is required to enable to sit in the examination for all the candidates admitted against reserved category of sports. The attendance certificates shall be issued by the Campus Sports Department in favour of each candidate whose attendance in sports grounds is at least 75% and admit card for examination shall be issued by the Chairperson only on the production of such a certificate.
11. When a candidate is required to abstain from the Department for participation in Inter College/Inter University/ National/International/StateSports Tournaments, he/she shall give prior information to the Chairperson of the concerned Department.
12. If a candidate admitted under the reserved category of Sports, remains absent from the grounds for regular practice for a continuous period of seven days without leave, his/her names shall be struck off the rolls by the Chairperson of the concerned Department on the recommendation of the Dean of Student Welfare, Panjab University, Chandigarh.
13. Deficiency of equal number of lectures (theory, practical, seminars and tutorials etc.) shall be condoned for sportspersons for attending Coaching Camps and participation in various tournaments i.e. Inter Hostel and Inter Department (Conducted by P.U. Campus Sports), Inter College, Inter District, State, Inter State, Inter University, National and International level tournaments.

<sup>4</sup> *Excelling at International level means representing the country in the International tournament recognized by the International Olympic Committee/Indian Olympic Association/BCCI*



14. In case a candidate does not attend the grounds for practice or does not participate in the P.U. Campus Sports Activities including Campus Annual Athletic Meet, Inter College Competition, Inter University Tournaments on medical grounds, the Medical Certificate issued only by the University Chief Medical Officer will be accepted.  
**NOTE :** In case a candidate remains present in the concerned Department for classes but is absent in the grounds for sports then his/her Medical Certificate will not be accepted and his/her admission shall liable to be cancelled.
15. In case there is one association or more than one association or federation in any game the sports certificates issued by those State Associations will be considered which are recognized by concerned State Olympic Association and respective National Federation. For Inter state and National level competitions the certificates issued by only those National Federations will be considered which are duly recognized by Indian Olympic Association or Ministry of Youth Affairs and Sports. In case of Cricket, BCCI will be the competent authority. For International level competitions, the certificates issued by those National Federations will be considered which are duly recognized by concerned Country's Olympic Association, such National Olympic Association should be duly recognized by International Olympic Committee.
16. Certificate on Letter head will not be considered in normal course. However, if the certificates are not issued by some sports Organizations/Associations in a particular game, those cases will be looked after separately by the screening committee on the recommendation of Campus Sports Department.
17. The clause 4 (i) and (ii) will not be applicable for Arjuna Awardeee / Rajiv Khel Ratan Awardee / Padam Shree Awardee / Olympians in any game/sports with the condition that if such a candidate is successful in getting admission but barred for participation due to age bar then he/she will coach or groom a team of his expertise for atleast five hours a week without seeking any remuneration.
18. The admission of candidates under reserved category of sports will be provisional until the verification of sports certificates from the concerned issuing authority.

**ANNEXURE-I****UNDERTAKING FOR ACHIEVEMENTS IN SPORTS**

I, \_\_\_\_\_ (name), son/daughter of Shri \_\_\_\_\_  
(father's name), born on \_\_\_\_\_ of \_\_\_\_\_  
(address) hereby solemnly declare and affirm as under:-

1. That as Sportsman/Sportswoman in \_\_\_\_\_ (name of discipline), I have represented the team(s) in the competition(s) on date(s) and also of named position(s) as indicated in the table below :-

Sr. No.	Sports Disciplines	Team represented	Name of the competition & year	Venue/Date	Position secured
---------	--------------------	------------------	--------------------------------	------------	------------------

1.  
2.  
3.

2. That the certificate(s) mentioned below are produced by me in support of the above are authentic :  
(i)  
(ii)  
(iii)

3. I understand that in case the information/documents supplied by me are found to be false, incorrect or forged, my admission will stand cancelled and I shall be liable for criminal action.

**(Signature of the candidate)**

**NOTE: IN CASE OF MINOR, THE UNDERTAKING SHALL BE FILLED IN BY HIS/HER PARENTS/ GUARDIANS WITH SUITABLE AMENDMENTS.**

**ANNEXURE-II****LIST OF GAMES**

Following are the Games/Disciplines on the basis of which claim for admission under the reserved category of sports can be considered. Following list is tentative subject to the changes if any in the AIU calendar 2017-18.

**Sr.No. Games & Section**

- |   |   |
|---|---|
| 1. American Football (Men & Women)                      | 26. Kabaddi (NS) (Men & Women)  |
| 2. Archery (Men & Women)                                | 27. Kho-Kho (Men & Women)   |
| 3. Athletics (Men & Women)                              | 28. Netball (Men & Women)   |
| 4. Aquatics (Swimming & Diving (M&W), Water Polo (Men)) | 29. Power Lifting (Men & Women)   |
| 5. Badminton (Men & Women)                              | 30. Roll Ball (Men & Women)   |
| 6. Ball Badminton (Men & Women)                         | 31. Rowing (Men & Women)  |
| 7. Basketball (Men & Women)                             | 32. Sepak Takraw (Men & Women)  |
| 8. Baseball (Men & Women)                               | 33. Shooting (Pistol & .177, Air Rifle Peep Sight, Clay Pigeon, Shooting Trap, Double Trap and Skeet (Men & Women)) |
| 9. Boxing (Men & Women)                                 | 34. Soft Tennis (Men & Women)   |
| 10. Canoeing & Kayaking (Men & Women)                   | 35. Softball (Men & Women)  |
| 11. Circle Style Kabaddi (Men & Women)                  | 36. Squash Rackets (Men & Women)  |
| 12. Chess (Men & Women)                                 | 37. Tug of War (Men & Women)  |
| 13. Cricket (Men & Women)                               | 38. Table-Tennis (Men & Women)  |
| 14. Cross Country Race (Men & Women)                    | 39. Taekwondo (Men & Women)   |
| 15. Cycling (Road & Track) (Men & Women)                | 40. Tennis (Men & Women)  |
| 16. E-Sports (Men & Women)                              | 41. Volleyball (Men & Women)  |
| 17. Fencing (Men & Women)                               | 42. Weight Lifting (Men & Women)  |
| 18. Football (Men & Women)                              | 43. Best Physique (Men & Women)   |
| 19. Gatka (Men & Women)                                 | 44. Wrestling Free Style & Greco Roman Style Wrestling (Men & Women)  |
| 20. Gymnastic & Malkhamb (Men & Women)                  | 45. Wushu (Men & Women)   |
| 21. Handball (Men & Women)                              | 46. Yachting (Men & Women)  |
| 22. Hockey 5's (Men & Women)                            | 47. Yoga (Men & Women)  |
| 23. Hockey (Men & Women)                                |   |
| 24. Judo (Men & Women)                                  |   |
| 25. Korfball (Mixed)                                    |   |

**ANNEXURE-III****PROCEDURE OF SPORTS TRIALS****1. General Fitness Test**

It is essential for the candidates to qualify **any one** of the following Fitness Test items for considerations of admission in Archery, Chess, E-Sports, Shooting and any two of the following fitness test items for consideration of admission in other games/sports as per the following standards.

- |    |           |  |                      |
|----|-----------|--|----------------------|
| 1. | Strength  | Standing Broad Jump<br>1.65 mts. for Men<br>1.15 mts. for Women      | Two attempts allowed |
| 2. | Endurance | 1000 mts. Run/Walk<br>5.00 minutes for Men<br>6.00 minutes for Women | One attempt allowed  |
| 3. | Speed     | 50 mts. Dash<br>8.00 sec. for Men<br>9.00 sec. for Women             | One attempt allowed  |

**Note:** it is essential to qualify in the General Fitness Test for appearing in the Sports Performance Test.

2. **Sports Performance Test** in the concerned game.
3. No Physical Fitness Test for specially challenged candidates/players.
4. All the candidates are to appear in the sports trials with proper sports kit and equipment of the concerned game.

**ANNEXURE-IV****GRADING CRITERIA FOR SPORTS MERIT**

**Note:** – Tournaments/Championships other than Inter University/Inter College/Inter School will be considered for Gradation provided they are recognized by International Olympic Committee/ Indian Olympic Association/respective National Federation / State Association / BCCI / SGFI / **MYAS\***

**CATEGORY 'A'**

- A-1: A person getting any of the first three positions in the Olympic Games, World Cup, World Championship, Davis Cup, Thomas Cup, Uber Cup, Para Olympic Games, and Winter Olympic Games.
- A-2: A person getting any of the first three positions in the Champions Trophy, Commonwealth Games, Commonwealth Championship, World Universities Games, World Universities Championship, Asian Games (Indoor/Outdoor Games), Asian Cups, Asian Championship, Asian Winter Games, Asian Para Olympics, Wimbledon Championship, US, French and Australia Open (Tennis) Championships, All England Badminton Tournament(s) and Youth Olympic Games.
- A-3: A person getting any of the first three positions in the One Day International Cricket matches, Cricket Test Matches, Commonwealth Youth Games, International Athletic Permit Meet, Asian Youth Games, Asian Martial Art Games, Asian Winter Games, SAF Games.
- A-4: A person getting any of the first three positions while representing Indian team in other International Tournaments recognized by IOA/ SGFI/ MYAS/BCCI.

**CATEGORY 'B'**

- B-1: A person representing India in the Olympic Games, World Cup, World Championship, Davis Cup, Thomas Cup, Uber Cup, Para Olympic Games, and Winter Olympic Games.
- B-2: A person representing India in the Champions Trophy, Commonwealth Games, Commonwealth Championship, World Universities Games, World Universities Championship, Asian Games (Indoor/Outdoor Games), Asian Cups, Asian Championship, Asian Winter Games, Asian Para Olympics, Wimbledon Championship, US, French and Australia Open (Tennis) Championships, All England Badminton Tournament(s) and Youth Olympic Games.
- B-3: A person representing India in the One Day International Cricket Matches, Cricket Test Matches, Commonwealth Youth Games, International Athletic Permit Meet, Asian Youth Games, Asian Martial Art Games, Asian Winter Games, SAF Games

- B-4: A person representing Indian team in other International Tournaments recognized by IOA/ SGFI/MYAS/BCCI
- B-5: A person getting any of the first three positions in the National games.
- B-6: A person getting any of the first three positions in the All India Inter University Tournaments / Senior National Championships / Inter State Tournament for Senior / Vizzy Trophy Tournament.
- B-7: A person getting any of the first three positions in the National Championships for Junior/Youth/Schools conducted by recognized National Federation/ SGFI (School Games Federation of India).
- B-8: A person getting any of the first three positions in the Federation Cup for Seniors.
- B-9: A person getting any of the first three positions in the National Women Sports Festival.
- B-10: A person getting any of the first three positions in the Nehru Cup (For Hockey only).
- B-11: A person getting any of the first three positions in the Zonal Inter University Meet or Championship.
- B-12: A person getting any of the first three positions in the National Zonal Meet or Championship for Senior (the Zonal tournament will be considered if at least 5 teams participated in the same)
- B-13: A person getting any of the first three positions in the National Zonal Meet or Championship for Junior (the Zonal tournament will be considered if at least 5 teams participated in the same)

**CATEGORY 'C'**

- C-1: A person included in the State/Union Territory teams in the National Games.
- C-2: A person included in the All India Inter University Tournaments/Senior National Championships/Inter State Tournament for Senior / Vizzy Trophy Tournament.
- C-3: A person included in the State/Union Territory Junior/Youth/Cadet teams in the National Championships or State/Union Territory School/CBSE/Kendriya Vidyalaya Sangathan/Navodya Vidyalaya/ICSC/IPSC teams in the National School Games conducted by SGFI (School Games Federation of India).
- C-4: A person included in the State/Union Territory teams in Federation Cup for Seniors.
- C-5: A person included in the State/Union Territory teams in the National Women Sports Festival.
- C-6: A person included in the Nehru Cup (For Hockey only).
- C-7: A person included in the National Zonal Meet or Championship for Senior/Zonal Inter University Championship (the Zonal tournament will be considered if at least 5 teams participated in the same).
- C-8: A person getting any of the first three positions in All India inter-Professional University Sports Meet of Agriculture, Law, Medicine, Technical and Management Universities.
- C-9: A person included in the Professional University team in Inter-Professional Tournaments.
- C-10: A person getting any of the first three positions in the Inter College Tournaments other than Professional Universities.
- C-11: A person getting any of the first three positions in the Inter College tournaments of Professional Universities/ Inter-Dist. / Union Territory Championships for Seniors / State Junior/Youth/School Games / Union Territory Championships for Juniors.

**CATEGORY 'D'**

- D-1: A person getting any of the first three positions in the University 'B' Division and 'C' Division Inter College Tournaments.
- D-2: A person getting any of the first three positions in the Residential University/P.U. Campus Championships or Tournaments.

**Note:** The certificates not mentioning the level of tournament i.e. Senior / Junior / Youth / Schools will be considered as per the following age criteria:

1. Under 14..... Sub-Junior
2. Under 17..... Junior
3. Under 19..... Youth
4. Above 19..... Senior

\* BCCI: Board of Control for Cricket in India

\* SGFI: School Games Federation of India

\* MYAS: Ministry of Youth Affairs & Sports

## ANNEXURE-V

**Schedule of the Trials for the Reserved Category of Sports**  
**Venue: Panjab University Grounds, Near Basketball Courts**  
**(In case of rain the venue will be in the Gymnasium Hall, Jawaharlal Nehru Complex)**

<b>Reporting Time: 8.30 A.M.</b>		<b>Trial Time: 9.00 A.M. to 12.00 Noon</b>	<b>Date</b>
<b>Sr. No.</b>	<b>Game</b>	<b>Section</b>	
1.	American Football	(Men & Women)	12.07.2017
2.	Archery	(Men & Women)	-do-
3.	Athletics	(Men & Women)	-do-
4.	Aquatics	(Men & Women)	-do-
5.	Football	(Men & Women)	-do-
6.	Basketball	(Men & Women)	-do-
7.	Cross Country Race	(Men & Women)	-do-
8.	Ball Badminton	(Men & Women)	12.07.2017
9.	Boxing	(Men & Women)	-do-
10.	Circle Style Kabaddi	(Men & Women)	-do-
11.	Tennis	(Men & Women)	-do-
12.	Soft Tennis	(Men & Women)	-do-
13.	Handball	(Men & Women)	-do-
14.	Baseball	(Men & Women)	13.07.2017
15.	Hockey 5's	(Men & Women)	-do-
16.	Hockey	(Men & Women)	-do-
17.	Korfball	(Mixed)	-do-
18.	Kabaddi (NS)	(Men & Women)	-do-
19.	Kho-Kho	(Men & Women)	-do-
20.	Volleyball	(Men & Women)	-do-
21.	Canoeing & Kayaking	(Men & Women)	13.07.2017
22.	Rowing	(Men & Women)	-do-
23.	Yachting	(Men & Women)	-do-
24.	Roll Ball	(Men & Women)	-do-
25.	Shooting (Pistol & .177, Clay Pigeon, Shooting Trap, Double Trap and Skeet	(Men & Women)	-do-
26.	Squash Rackets	(Men & Women)	-do-
27.	E-Sports	(Men & Women)	14.07.2017
28.	Fencing	(Men & Women)	-do-
29.	Gymnastic & Malkhamb	(Men & Women)	-do-
30.	Judo	(Men & Women)	-do-
31.	Wushu	(Men & Women)	-do-
32.	Badminton	(Men & Women)	-do-
33.	Chess	(Men & Women)	-do-
34.	Table-Tennis	(Men & Women)	-do-
35.	Taekwondo	(Men & Women)	14.07.2017
36.	Best Physique	(Men & Women)	-do-
37.	Power Lifting	(Men & Women)	-do-
38.	Weight Lifting	(Men & Women)	-do-
39.	Wrestling Free Style & Greco Roman Style Wrestling	(Men & Women)	-do-
40.	Yoga	(Men & Women)	-do-
41.	Cycling(Road & Track)	(Men & Women)	15.07.2017
42.	Cricket	(Men & Women)	-do-
43.	Gatka	(Men & Women)	-do-
44.	Netball	(Men & Women)	-do-
45.	Softball	(Men & Women)	-do-
46.	Sepak Takraw	(Men & Women)	-do-
47.	Tug of War	(Men & Women)	-do-

**ANNEXURE-VI****UNDERTAKING FOR ATTENDANCE IN SPORTS GROUND**

I, \_\_\_\_\_ son/daughter of \_\_\_\_\_ resident  
of \_\_\_\_\_ do hereby declare as under :-

- (i) That I am seeking admission to the Department of \_\_\_\_\_ under the Sports Category.
- (ii) That in case I am admitted to the above said department I shall regularly attend the grounds for practice and I shall also participate in P.U. Campus Sports Activities including P.U. Campus Annual Athletic Meet/Inter-College/Inter-University/ National/International Sports Tournament on behalf of the P.U. Campus and the Panjab University if selected.
- (iii) That in case I fail to regularly attend the Grounds for practice or fail to participate in the tournaments as and when required, my admission to the Department of \_\_\_\_\_ shall be liable to be cancelled.
- (iv) That in case my admission to the Department of \_\_\_\_\_ is cancelled due to my failure to regularly attend the grounds for practice or to participate in the P.U. Campus Sports Activities (including Annual Athletic Meet) / Inter-University / National / International Sports Tournaments as may be required by the Campus Sports Department, Panjab University, Chandigarh. I shall have no claim on any account whatsoever against the Department or against the University.

**(Signature of the candidate)**

**27. SPECIMEN OF CERTIFICATES****A. SCHEDULED CASTE/ SCHEDULED TRIBE CERTIFICATE**

The Caste/Tribe Certificate should necessarily contain the following information about:

- (a) Name of the person;
- (b) Father's name;
- (c) Permanent place of residence
- (d) Name of the Caste/ Tribe
- (e) Constitutional order under which the caste/ tribe has been notified
- (f) Signature of issuing authority along with the designation, seals and date

**Authorities Empowered to issue SC/ST certificate**

- 1) District Magistrate/ Additional District Magistrate/ Collector/Deputy Commissioner/ Additional Deputy Commissioner/ Deputy Collector/ 1<sup>st</sup> Class Stipendiary Magistrate/ Sub-Divisional Magistrate/ Taluka Magistrate/ Executive Magistrate/ Extra Assistant Commissioner.
- 2) Chief Presidency Magistrate/ Additional Chief Presidency Magistrate/ Presidency Magistrate.
- 3) Revenue Officer not below the rank of Tehsildar.
- 4) Sub-Divisional Officer of the area where the candidate and/or his/her family normally resides.
- 5) Administrator/ Secretary to Administrator/ Development Officer (Lakshdweep Islands)

**B. BACKWARD CLASS CETIFICATE**

(Persons belonging to OBC/SBC will not be considered under this category)

Certificate/Despatch No. \_\_\_\_\_ Dated \_\_\_\_\_

This is to certify that \_\_\_\_\_ son/daughter of Sh. \_\_\_\_\_ Resident of \_\_\_\_\_ of the state of \_\_\_\_\_ belongs to the \_\_\_\_\_ community which is recognized as a Backward Class by the Government of \_\_\_\_\_ under \_\_\_\_\_ and his family ordinarily reside(s) in District of \_\_\_\_\_ of the state \_\_\_\_\_. This is also to certify that he/she does not belong to any category of persons/sections (Creamy Layer) mentioned in column 3 of the schedule to the Government of India, Department of Personnel & Training, O.M. No. 36012/22/93-Estt. (SCT) dated 08/09/93, modified vide OM No. 36033/3/2004 Estt.(Res.) dated 09/03/2004, OM No. 36033/1/2013-Estt.(Res.) dated 27.05.2013 or the latest notification of the Government of India.

This certificate is being issued based on the annual income/status of the parents/guardian of the applicant as on financial year ending March 31 \_\_\_\_\_.

Place:  
Dated:

Signature: \_\_\_\_\_  
Designation \_\_\_\_\_  
(with seal of officer concerned)

**Authorities Empowered to issue Backward Class Certificate.**

1. Deputy Commissioner
2. Additional Deputy Commissioner
3. Sub-Divisional Magistrate
4. Executive Magistrate
5. Tehsildar
6. Naib Tehsildar
7. Block Officer
8. District Revenue Officer

**Criteria for Admission under this category**

1. 5% seats reserved for persons belongs to this category.
2. Candidate must belong to non-creamy layer as defined by the latest rules of Govt. of India.
3. The certificate should not be older than one year from the date of admission.
4. OBC/SBC will not be considered under this category.

**C. CERTIFICATE FOR ADMISSION UNDER DEFENCE CATEGORY**

Despatch No. \_\_\_\_\_ Dated \_\_\_\_\_

Certified that \_\_\_\_\_ an applicant for admission to \_\_\_\_\_ course(s) in the department of \_\_\_\_\_ Panjab University, is

1. Son/Daughter/Spouse of such Defence and Central Armed Police Force (CAPF)\* personnel who died in action on \_\_\_\_\_ during \_\_\_\_\_. (Only those who are wholly dependent on such personnel shall be considered).
2. Son/Daughter/Spouse who is wholly dependent on such Defence and CAPF personnel who were incapacitated/died on \_\_\_\_\_ while in service.
3. Defence and CAPF personnel who were incapacitated while in service.
4. Son/daughter/spouse of ex-servicemen who are wholly dependent on them.
5. Son/daughter/spouse of serving Defence personnel and CAPF who are wholly dependent on them.
6. Ex-servicemen.
7. Serving Defence personnel and CAPF personnel.

\_\_\_\_\_  
Name of the Certifying Officer  
Designation \_\_\_\_\_

Signature of authorized Military/Central Armed Police Forces Officer  
(with official seal)

\* CAPF earlier known as Para-military forces, includes Assam Rifles (AR), Border Security Force (BSF), Central Industrial Security Force (CISF), Central Reserve Police Force (CRPF), Indo Tibetan Border Police (ITBP), National Security Guard (NSG), Sashastra Seema Bal (SSB) etc.

**D. CERTIFICATE OF CHILDREN/GRANDCHILDREN OF FREEDOM FIGHTER**

Despatch No.: \_\_\_\_\_

Dated: \_\_\_\_\_

Certified that Mr./Ms. \_\_\_\_\_ son/daughter of Shri \_\_\_\_\_ is child/grandchild of a Tamrapatra Holder/Freedom Fighter Pensioner drawing his pension from \_\_\_\_\_ Treasury.

Date

Seal

Signature of the Deputy Commissioner

**E. CERTIFICATE FOR ONLY GIRL CHILD/ONE OUT OF TWO GIRL CHILDREN**

We, \_\_\_\_\_ (father) and \_\_\_\_\_ (mother) of Miss \_\_\_\_\_ (full address to be given) resident of House No. \_\_\_\_\_ Street/ Sector \_\_\_\_\_ Town/City/ Village \_\_\_\_\_ District/State \_\_\_\_\_ do hereby solemnly declare and affirm as under :-

1. That we are citizens of India.
2. That Miss \_\_\_\_\_ born on \_\_\_\_\_ is our girl child.
3. That we have no male child.
1. That we have the following only two girls including the one whose name figures at point no 2 children and none else :
 

(i) Name _____	(i) Name _____
(ii) Sex _____	(ii) Sex _____
(iii) Date of Birth _____	(iii) Date of Birth _____
2. That none of the above mentioned two girl children has obtained/availed the benefit granted under this category, in this University/Institute including its affiliated colleges.

Signature  
(Father)

Signature  
(Mother)

Place:

Dated:

**NOTE:** Who can apply under this category?

Single Girl Child

OR

One Girl Child out of only Two Girl Children\*.

\* Clarification: This Seat shall not be available for:-

- i) Those having three or more girl children.
- ii) Those having any male child.



**F. CERTIFICATE BY THE CANDIDATE FROM BORDER AREA SCHOOL**

**No.**

**Dated:**

Certified that Mr. / Ms. \_\_\_\_\_ son / daughter of Sh. \_\_\_\_\_ and Smt. \_\_\_\_\_ resident of \_\_\_\_\_ has passed the Matriculation and +2 from school(s) that is situated within 20 kms from the International Border.

It is further certified that Mr. / Ms. \_\_\_\_\_ has studied for \_\_\_\_\_ year(s) in the institution(s) that is situated within 20 kms from the International Border, as per date of joining and leaving school as given below :-

	<b>Name of School</b>	<b>Date of joining</b>	<b>Date of leaving</b>
1.	_____	_____	_____
2.	_____	_____	_____
3.	_____	_____	_____
4.	_____	_____	_____

**Place:**

**Seal and Signature**

**Date:**

**(Tehsildar / Principal / Headmaster)**

**G. CERTIFICATE BY THE CANDIDATE FROM RURAL AREA SCHOOL**

**No.** \_\_\_\_\_

**Dated:** \_\_\_\_\_

Certified that Mr./Ms. \_\_\_\_\_ son/daughter of Sh. \_\_\_\_\_ and Smt. \_\_\_\_\_ resident of \_\_\_\_\_ has passed the matriculation and +2 examination from Rural School(s) that does not fall in the area of the Municipal Corporation/Municipal Committee/Small Town/Notified Area/Cantonment Area and has studied in a rural area school for at least five years before passing +2 examination.

	<b>Name of School</b>	<b>Date of joining</b>	<b>Date of leaving</b>
1.	_____	_____	_____
2.	_____	_____	_____
3.	_____	_____	_____
4.	_____	_____	_____

**Place:**

**Seal and Signature**

**Date:**

**(D.E.O / Principal)**

**H. MEDICAL EXAMINATION FORM**

(The medical examination will be conducted by any Govt. Gazetted Officer/Medical Officer at BGJIH)

(Items Nos. from 1 to 8 below to be filled in by the candidate)

- 1. Name of the candidate \_\_\_\_\_
- 2. Father's Name \_\_\_\_\_
- 3. Mother's Name \_\_\_\_\_
- 4. Date of Birth \_\_\_\_\_
- 5. Department (in which admission is being sought) \_\_\_\_\_
- 6. University Receipt for Medical Examination Fee  
No. \_\_\_\_\_ Date \_\_\_\_\_ Rs. \_\_\_\_\_

Attach applicant's recent passport size attested photograph.

- 7. Roll No. (allotted by the Department):
- 8. History of any previous or existing illness: Yes/No (If yes, mention details)
  - I. Like Epilepsy(Seizures), Hypertension, Bronchitis, Bronchial Asthma, Tuberculosis, Rheumatic Heart Disease, Diabetes etc.: Yes/No
  - II. History of any operation/Surgery : Yes/No
  - III. History of any regular medication : Yes/No
  - IV. History of any kind of allergy : Yes/No

\_\_\_\_\_  
(Signature of the candidate to be attested by the Chairman)

\_\_\_\_\_  
(Signature of the candidate in the presence of examining Doctor)

\_\_\_\_\_  
(Signature of the Chairman with seal of the Department)

**Medical Examination**

General Physical Examination

- (a) Pulse \_\_\_\_\_/min. Blood Pressure \_\_\_\_\_ mmHg (sitting)
- (b) Vision (without glasses) Right \_\_\_\_\_ Left \_\_\_\_\_ Colour Vision \_\_\_\_\_
- (c) Vision (with glasses) Right \_\_\_\_\_ Left \_\_\_\_\_
- A. Systemic Examination of CNS/Chest/ CVS/Abdomen/Limbs
- B. Recommendation of the examining physician, if any

(Signature of the Medical Officer with seal and date)

**FORM OF CERTIFICATE RECOMMENDED FOR LEAVE OR EXTENSION OR COMMUNICATION  
OF LEAVE AND FOR FITNESS**

Signature of patient

Or thumb impression \_\_\_\_\_

To be filled in by the applicant in the presence of the Government Medical Attendant or Medical Practitioner (with qualifications-MBBS or above)

Identification marks:-

a. \_\_\_\_\_

b. \_\_\_\_\_

I, Dr. \_\_\_\_\_ after careful examination of the case certify hereby that \_\_\_\_\_ whose signature is given above is suffering from \_\_\_\_\_ and I consider that a period of absence from duty of \_\_\_\_\_ with effect from \_\_\_\_\_ is absolutely necessary for the restoration of his health.

I, Dr. \_\_\_\_\_ after careful examination of the case certify hereby that \_\_\_\_\_ on restoration of health is now fit of join service.

**Signature of Medical attendant**

Registration No. \_\_\_\_\_

(MBBS or above with Mobile #)

**Note:-** The nature and probable duration of the illness should also be specified. This certificate must be accompanied by a brief resume of the case giving the nature of the illness, its symptoms, causes and duration.

**FORMAT FOR MEDICAL RECORD**

Name of the patient:

Age:

Sex:

Address:

Occupation:

Date of 1<sup>st</sup> visit:

Clinical note (summary) of the case:

Prov. : Diagnosis :

Investigations advised with reports:

Diagnosis after Investigation:

Advice:

**Follow up**

Date:

Observations:

Signature in full \_\_\_\_\_

Name of Treating Physician

(MBBS or above with Mobile #)

**Important Note:- Under this category of Physically Challenged, persons only with Permanent Physical Disability (PPD) will be considered. Candidates with temporary physical disability will not be eligible for applying under this category.**

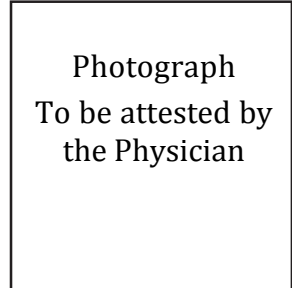
**COPY OF CERTIFICATE OF PHYSICALLY CHALLENGED CATEGORY FOR APPLYING FOR ADMISSION**

**(Detailed information is available at Ministry of Social Justice and Empowerment, Government of India website: [www.socialjustice.nic.in](http://www.socialjustice.nic.in) as per PART-II Section 3, sub-section (i) Notification as amended on 30<sup>th</sup> December, 2009 for persons with disability**

**(Equal Opportunities and full participation Rules, 1996) (Copies of Form-I, Form-II, Form-III and Form-IV, attached).**

**Form-I**  
**APPLICATION FOR OBTAINING DISABILITY CERTIFICATE BY PERSONS WITH DISABILITIES**

1. Name: (Surname) \_\_\_\_\_ (First name) \_\_\_\_\_  
 (Middle name) \_\_\_\_\_
2. Father's name: \_\_\_\_\_ Mother's name: \_\_\_\_\_
3. Date of Birth: (date) \_\_\_\_\_ / (month) \_\_\_\_\_ / (year) \_\_\_\_\_
4. Age at the time of application: \_\_\_\_\_ years
5. Sex: \_\_\_\_\_ Male/Female
6. Address:
  - (a) Permanent address  
 \_\_\_\_\_  
 \_\_\_\_\_
  - (b) Current Address (i.e. for communication)  
 \_\_\_\_\_  
 \_\_\_\_\_
  - (c) Period since when residing at current address  
 \_\_\_\_\_  
 \_\_\_\_\_
7. Educational Status (Pl. tick as applicable)
  - I. Post Graduate
  - II. Graduate
  - III. Diploma
  - IV. Higher Secondary
  - V. High School
  - VI. Middle
  - VII. Primary
  - VIII. Illiterate
8. Occupation
9. Identification marks (i) \_\_\_\_\_ (ii) \_\_\_\_\_
10. Nature of disability: locomotor/hearing/visual/mental/others
11. Period since when disabled: From Birth/Since year \_\_\_\_\_
12. (i) Did you ever apply for issue of a disability certificate in the past \_\_\_\_ YES/NO



(ii) If yes, details:

a. Authority to whom and district in which applied

b. Result of application

13. Have you ever been issued a disability certificate in the past? If yes, please enclose a true copy.

Declaration: I hereby declare that all particulars stated above are true to the best of my knowledge and belief, and no material information has been concealed or misstated. I further, state that if any inaccuracy is detected in the application, I shall be liable to forfeiture of any benefits derived and other action as per law.

\_\_\_\_\_  
 (Signature or left thumb impression of person with disability, or of his/her legal guardian in case of persons with mental retardation, autism, cerebral palsy and multiple disabilities)

Date:

Place:

Encl:

3. Proof of residence (Please tick as applicable)

- a. ration card,
- b. voter identity card,
- c. driving license,
- d. bank passbook,
- e. PAN card,
- f. Passport,
- g. Telephone, electricity, water and any other utility bill indicating the address of the applicant,
- h. A certificate of residence issued by a Panchayat, municipality, cantonment board, any gazette officer, or the concerned Patwari or Head Master of a Govt. school,
- i. In case of an inmate of a residential institution for persons with disabilities, destitute, mentally ill, etc., a certificate of residence from the head of such institution.

4. Two recent passport size photographs

\_\_\_\_\_  
 (For office use only)

Date:

Place:

Signature of issuing authority

Stamp

**Form-II  
Disability Certificate**

**(In cases of amputation or complete permanent paralysis of limbs and in case of blindness)**

**(NAME AND ADDRESS OF THE MEDICAL AUTHORITY ISSUING THE CERTIFICATE)**

Recent pp size  
Attested Photograph  
(showing face only)  
of the person with  
disability

Certificate No. \_\_\_\_\_

Date: \_\_\_\_\_

This is to certify that I have carefully examined Shri/Smt./Kum. \_\_\_\_\_ son/wife/daughter of Shri \_\_\_\_\_ Date of Birth (DD/ MM/ YY) \_\_\_\_\_ Age \_\_\_\_\_ years, male/female, Registration No. \_\_\_\_\_ permanent resident of House No. \_\_\_\_\_ Ward/Village/Street \_\_\_\_\_ Post Office \_\_\_\_\_, District \_\_\_\_\_, State \_\_\_\_\_, whose photograph is affixed above, and am satisfied that:

- (A) He/she is a case of:
- locomotor disability
  - blindness

(Please tick as applicable)

(B) the diagnosis in his/her case is \_\_\_\_\_

(C) He/She has \_\_\_\_\_ % (in figure) \_\_\_\_\_ percent (in words) permanent physical impairment/blindness in relation to his/her \_\_\_\_\_ (part of body) as per guidelines (to be specified).

2. The applicant has submitted the following document as proof of residence:-

Nature of Document	Date of Issue	Details of authority issuing certificate
--------------------	---------------	--

Signature/ Thumb impression of the person in whose favour disability certificate is issued.

Signature and Seal of Authorised Signatory of Notified Medical Authority)

**Form-III**  
**Disability Certificate**  
**(In case of multiple disabilities)**  
**(NAME AND ADDRESS OF THE MEDICAL AUTHORITY ISSUING THE CERTIFICATE)**

Recent pp size  
 Attested  
 Photograph  
 (showing face  
 only) of the person  
 with disability

Certificate No. \_\_\_\_\_ Date: \_\_\_\_\_  
 This is to certify that we have carefully examined Shri/Smt./Kum. \_\_\_\_\_ son/wife/daughter of Shri \_\_\_\_\_ Date of Birth (DD/ MM/ YY) \_\_\_\_\_ Age \_\_\_\_\_ years, male/female, Registration No. \_\_\_\_\_ permanent resident of House No. \_\_\_\_\_ Ward/Village/Street \_\_\_\_\_ Post Office \_\_\_\_\_, District \_\_\_\_\_, State \_\_\_\_\_, whose photograph is affixed above, and are satisfied that:

(A) He/she is a case of **Multiple Disability**. His/her extent of permanent physical impairment/disability has been evaluated as per guidelines (to be specified) for the disabilities ticked below, and shown against the relevant disability in the table below:

Sr. No.	Disability	Affected Part of Body	Diagnosis	Permanent physical impairment/ mental disability (in %)
1.	Locomotor disability	@		
2.	Low vision	#		
3.	Blindness	<b>Both Eyes</b>		
4.	Hearing impairment	£		
5.	Mental retardation	X		
6.	Mental-illness	X		

(B) In the light of the above, his/her over all permanent physical impairment as per guidelines (to be specified), is as follows:-

In figures:- \_\_\_\_\_ percent  
 In words:- \_\_\_\_\_ percent

2. This condition is progressive/non-progressive/likely to improve/not likely to improve.
3. Reassessment of disability is:
  - (i) not necessary.

**Or**

  - (ii) is recommended/after \_\_\_\_\_ years \_\_\_\_\_ months, and therefore, this certificate shall be valid till (DD / MM /YY) \_\_\_\_\_  
 @ - e.g. Left/Right/both arms/legs  
 # - e.g. Single eye/both eyes  
 £ - e.g. Left/Right/both ears

4. The applicant has submitted the following document as proof of residence:-

Nature of Document	Date of Issue	Details of authority issuing certificate
5. Signature and seal of the Medical Authority		
Name and seal of Member	Name and seal of Member	Name and seal of the Chairperson

Signature/Thumb impression of the person in whose favour disability certificate is issued.



**Form-IV  
Disability Certificate**

**(In cases other than those mentioned in Forms II and III)**

**(NAME AND ADDRESS OF THE MEDICAL AUTHORITY ISSUING THE CERTIFICATE)**

Recent pp size Attested Photograph (showing face only) of the person with disability
--

Certificate No. \_\_\_\_\_

Date: \_\_\_\_\_

This is to certify that I have carefully examined Shri/Smt./Kum. \_\_\_\_\_ son/wife/daughter of Shri \_\_\_\_\_ Date of Birth (DD/ MM/ YY) \_\_\_\_\_ Age \_\_\_\_\_ years, male/female, Registration No. \_\_\_\_\_ permanent resident of House No. \_\_\_\_\_ Ward/Village/Street \_\_\_\_\_ Post Office \_\_\_\_\_, District \_\_\_\_\_, State \_\_\_\_\_, whose photograph is affixed above, and am satisfied that he/she is a case of \_\_\_\_\_ disability. His/her extent of percentage physical impairment/disability has been evaluated as per guidelines (to be specified) and is shown against the relevant disability in the table below:-

Sr. No.	Disability	Affected Part of Body	Diagnosis	Permanent physical impairment/ mental disability (in %)
1.	Locomotor disability	@		
2.	Low vision	#		
3.	Blindness	<b>Both Eyes</b>		
4.	Hearing impairment	£		
5.	Mental retardation	<b>X</b>		
6.	Mental-illness	<b>X</b>		

(Please strike out the disabilities which are not applicable)

2. The above condition is progressive/non-progressive/likely to improve/not likely to improve.

3. Reassessment of disability is:

(i) not necessary.

**Or**

(ii) is recommended/after \_\_\_\_\_ years \_\_\_\_\_ months, and therefore, this certificate shall be valid till (DD / MM /YY) \_\_\_\_\_

@ - e.g. Left/Right/both arms/legs

# - e.g. Single eye/both eyes

£ - e.g. Left/Right/both ears

4. The applicant has submitted the following document as proof of residence:-

Nature of Document	Date of Issue	Details of authority issuing certificate

(Authorised Signatory of notified Medical Authority)

(Name and Seal)

Countersigned

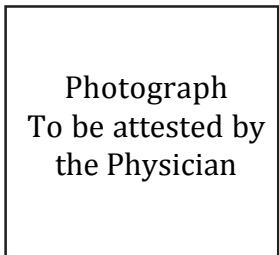
Signature/Thumb impression of the person in whose favour disability certificate is issued.
---

{Countersignature and seal of the CMO/Medical Superintendent/Head of Government Hospital, in case the certificate is issued by a medical authority who is not a government servant (with seal)}

Note: 1. "In case this certificate is issued by a medical authority who is not a government servant, it shall be valid only if countersigned by the Chief Medical Officer of the District"

**Certificate for candidates applying under the reserved category for Cancer/Thalassemia Major/AIDS**

**DETAILED ADDRESS OF ISSUING PHYSICIAN AND HOSPITAL  
(Mention serial number and date with phone number and address)**



This is to certify that Ms./Mr. \_\_\_\_\_ (Name of the student), Date of Birth: \_\_\_\_\_ C.R./OPD No. \_\_\_\_\_ D/o / S/o \_\_\_\_\_ (Mother's / Father's Name), resident of \_\_\_\_\_ (complete address), is a diagnosed case of \_\_\_\_\_ (Cancer / Thalassemia Major / AIDS)\*. She/He is undergoing treatment for the same under my care.

\_\_\_\_\_  
(Signature of the Patient)

Attested

\_\_\_\_\_  
(Signature of the Physician)

Name and address of the Physician \_\_\_\_\_  
\_\_\_\_\_

Stamp of the Physician

\*Strike out whichever is not applicable.

**28. CONTACT INFORMATION IN CASE OF INCIDENCE OF RAGGING**

It is to be noted that ragging is a cognizable offence and is banned in any form inside and outside the campus. A student who becomes victim of ragging should immediately inform the incident to the Chairperson of the Department/Warden of the Hostel.

Helpline numbers are given below :

- Dean of Student Welfare 9815974293e-mail: dsw@pu.ac.in
- Dean of Student Welfare (W) 9876241414
- Associate Dean of Student Welfare 9878555311
- Assistant Registrar (DSW) 2541596, 2534565, 9041456345
- Chief of University Security 2534891, 2534289, 2536164, 9872131500
- Security Officers 9501229494, 9872877744, 9888307832, 9569577963

Details are available at <http://puchd.ac.in/anti-ragging.php>

## 29. Panjab University Committee Against Sexual Harassment (PUCASH)

PUCASH is constituted for a period of two years consisting of at least six members for redressal of complaints of sexual harassment of women employees/female students. The Committee is headed by a woman professor as its Chairperson and has 50% of its members as women employees. Its members include a woman counsellor and a person with legal background.

**Sexual harassment is a serious criminal offence. Follow the code of conduct and discipline for the avoidance of this evil on the University Campus.**

Dean of Student Welfare	9815974293, Mail : dsw@pu.ac.in
Dean of Student Welfare (W)	9876241414
Associate Dean of Student Welfare	9878555311
Assistant Registrar (DSW)	2541596, 2534565, 9041456345
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Security Officers	9501229494, 9872877744, 9888307832, 9569577963

Details are available at available at <http://puchd.ac.in/pucash.php>

## 30. LIST OF FAKE UNIVERSITIES AS ON SEPTEMBER 2016

[www.ugc.ac.in](http://www.ugc.ac.in)

1. Maithlli University/ Vishwavidyalaya, Darbhanga, Bihar.
2. Commercial University Ltd., Daryaganj, Delhi.
3. United Nations University, Delhi.
4. Vocational University, Delhi.
5. ADR-Centric Juridical University, ADR House, 8J, Gopala Tower, 25 Rajendra Place, New Delhi-110008.
6. Indian Institute of Science and Engineering, New Delhi.
7. Badaganvi Sarkar World Open University Education Society, Gokak, Belgaum (Karnataka).
8. St. John's University, Kishanttam, Kerala.
9. Raja Arabic University, Nagpur.
10. D.D.B. Sanskrit University, Putur, Trichi, Tamil Nadu.
11. Indian Institute of Alternative Medicine, Kolkatta.
12. Institute of Alternative Medicine and Research, 8-A, Diamond Harbour Road, Bultech inn, 2nd Floor, Thakurpurkur, Kolkatta - 700063.
13. Varanaseya Sanskrit Vishwavidyalaya, Varanasi (U.P.), Jagatpuri, Delhi.
14. Mahila Gram Vidyapith/ Vishwavidyalaya, (Women's University) Prayag, Allahabad (U.P.).
15. Gandhi Hindi Vidyapith, Prayag, Allahabad (Uttar Pradesh)
16. National University of Electro Complex, Homeopathy, Kanpur (Uttar Pradesh).
17. Netaji Subhash Chandra Bose University (Open University), Achaltal, Aligarh (Uttar Pradesh).
18. Uttar Pradesh Vishwavidyalaya, Kosi Kalan, Mathura (Uttar Pradesh).
19. Maharana Partap Shiksha Niketan Vishwavidyalaya, Partapgarh (Uttar Pradesh).
20. Indraprastha Shiksha Parishad, Institutional Area, Khoda, Makanpur, Noida Phase-II, Uttar Pradesh.
21. Gurukul Vishwavidyalaya, Vrindawan (Uttar Pradesh).
22. Nababharat Shiksha Parishad, Anupoorna Bhawan, Plot No. 242, Pani Tanki Road, Shaktinagar, Rourkela-769014.
23. North Orissa University of Agriculture & Technology, Odisha.
24. Bhartiya Shiksha Parishad, Lucknow, UP - the matter is subjudice before the District Judge -Lucknow

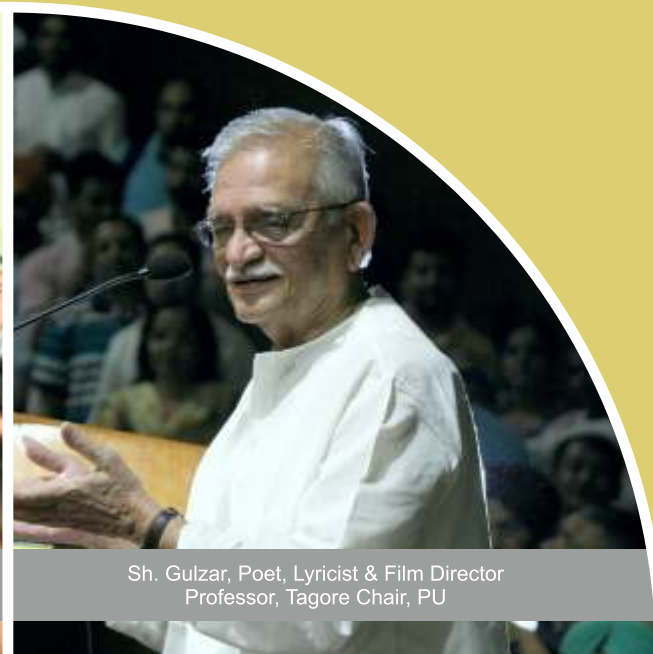
Universities de-recognized by Panjab University (Syndicate para 7, dated 20.03.2017)

1. CMJ University, Shillong (Meghalaya) degrees received after 2015-16.
2. E.I.L.M. University Sikkim degrees received after 2013-14





Participants of an International Students' Exchange Programme



Sh. Gulzar, Poet, Lyricist & Film Director  
Professor, Tagore Chair, PU



Smt. Ela R. Bhatt, Founder, SEWA  
Professor, Mahatama Gandhi Chair, PU



International Yoga Day (June 21)



**“A university stands for humanism, for tolerance, for reason, for progress,  
for the adventure of ideas and for the search for truth.**

**It stands for the onward march of the human race towards even higher objectives.**

**If the universities discharge their duty adequately, then it is well with the nation and the people”.**

**- Pt. Jawaharlal Nehru**

**PANJAB UNIVERSITY**  
**CHANDIGARH-160014**

**[www.puchd.ac.in](http://www.puchd.ac.in)**

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