

PANJAB UNIVERSITY CHANDIGARH

(Established under the Panjab University Act VII of 1947 Enacted
by the Government of India)

PROSPECTUS

M.PHIL. & PH.D. -2018 ENTRANCE
TEST TO BE HELD ON 01-07-2018
(Sunday)

**Last date for submission of information on the website to
generate the Bank Challan: 20-06-2018**

Website: <http://phdadmissions.puchd.ac.in>

FEE (Non-refundable):

General Category Rs. 2100/-
SC/ST/PwD Category Rs. 1050/-

PANJAB UNIVERSITY ANTHEM

<p>तमसो मा ज्योतिर्गमयः तमसो मा ज्योतिर्गमयः तमसो मा ज्योतिर्गमयः तमसो मा ज्योतिर्गमयः 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</p>	<p>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</p>
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IMPORTANT DATES / INFORMATION FOR ENTRANCE TEST-2018

Date of availability of M.Phil. & Ph.D. Prospectus and Online Entrance Test Form on the website of Panjab University, Chandigarh	31-05-2018 (Thursday)
Last date for submission of information on the website to generate the Bank Challan	20-06-2018 (Wednesday)
Last date for deposit of fee in any branch of State Bank of India using website generated challan	22-06-2018 (Friday) upto 4:00 p.m.
Last date for uploading of photograph, signature with rest of the information on the website	24-06-2018 (Sunday)
Availability of Admit Card Online Admit Card along with Time & Centre of Examination is to be downloaded from the website by the candidate using his/her own Login ID and Password provided while generating Bank Challan. The candidates will be communicated through email only for this purpose.	27-06-2018 (Wednesday)
Date of Entrance Test	01-07-2018 (Sunday)
Centre for Entrance Test	Chandigarh Only
Uploading of Answer Key (at http://exams.puchd.ac.in/show-noticeboard.php) and inviting Objections (through e-mail only to arcet@pu.ac.in)	17-07-2018 (Tuesday)
Last day of submission of objections to the Answer key	19-07-2018 (Thursday)
Uploading of the response to the Objections and inviting Cross-objections (through e-mail only)	23-07-2018 (Monday)
Last day of submission of Cross-objections to the Answer key	25-07-2018 (Wednesday)
Date of declaration of result	13-08-2018 (Monday)
Result Cards	Result cards can be downloaded from the website. No separate result cards will be issued to the candidates by the office.

<u>DATE SHEET</u>		
Date & Day	Paper	Time
01.07.2018 (Sunday)	Paper-I (Objective type)	10.00 a.m. – 11.00 a.m.
	Paper-II (Subjective type)	11.30 a.m. – 1.30 p.m.

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.

IMPORTANT NOTES

1. The Fee for M.Phil. & Ph.D. Entrance Test is Rs. 2100/- (Rs. 1050/- for SC/ST/PwD). The fee for the Entrance Test once paid shall not be refunded.
2. Class B/C Regular Employee of PU must send the copy of printout of their Entrance Test Form along with Performa for claiming 50% concession to P.U. Regular Employees ("B" and "C" Class) duly signed by Head/Chairperson to Assistant Registrar, CET Cell, Aruna Ranjit Chandra Hall, Panjab University, Chandigarh-160014 by registered post/speed post or by hand on or before **26-06-2018 (Tuesday)** upto 4:00 p.m.
3. Only the candidates who have passed or are appearing in the qualifying examination for a particular Course can apply for the Entrance Test.
4. The Syllabus for M.Phil. & Ph.D. Entrance Examination will be as prescribed for Master's Degree or equivalent classes of Panjab University in the relevant subject.
5. Special arrangements for amanuensis (writer of Answer):
A candidate may be allowed help of an amanuensis (writer) if he/she is:
 - (i) Blind
OR
 - (ii) Permanently disabled from writing with his/her own hand.
 - (iii) Temporarily disabled from writing on account of fracture of the right or left arm, forearm or dislocation of a shoulder elbow or wrist etc. The candidate shall produce a certificate from a Professor of the speciality concerned of a Medical College and where there is no Medical College, from the Chief Medical Officer of the District concerned to the effect that the candidate is unable to write his/her Answer-books because of the temporary disablement.
6. 20 minutes extra per hour would be given to the visually handicapped / PwD candidates for each paper.
7. Candidates securing equal marks shall be bracketed together. Their **inter-se** merit will be determined by the Institution in accordance with 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, candidate senior in age shall rank higher in the order of merit.
8. The result of the Entrance Test will be available at <http://results.puchd.ac.in>. No separate Result Cards will be issued.
9. **Candidates can deposit their Admission Form for M.Phil. and Ph.D. after the declaration of the result of the M.Phil. & Ph.D. Entrance Test-2018.**

PANJAB UNIVERSITY, CHANDIGARH

GENERAL INFORMATION

The Panjab University, Chandigarh will hold an Entrance Test for enrolment to M.Phil. & Ph.D. in the Faculties of Arts, Business Management & Commerce, Design & Fine Arts, Education, Engineering, Languages, Law and Science.

Faculty of Arts

<u>Sr. No.</u>	<u>Name of the Department / College</u>	<u>Subject</u>	<u>M.Phil. Seats (subject to change)</u>	<u>No. of slots for Ph.D. (subject to change)</u>
1	Department of Ancient Indian History Culture & Archaeology	Ancient Indian History & Archaeology	15	Nil
2	Department of Defence & National Security Studies	Defence Studies	05	10
3	Department of Economics	Economics	08	04
	CRRID, Sector 19, Chandigarh	Economics	Nil	08
	IDC, Sector 38, Chandigarh	Economics	Nil	02 or 03
4	Department of Gandhian and Peace Studies	Gandhian Studies	10	08
5	Department of History	History	15	15
	Department of Evening Studies	History	Nil	05
	Others	History	Nil	04
6	Department of Philosophy	Philosophy	07	01
7	Centre for Police Administration	Police Administration	06+04**	Nil
8	Department of Evening Studies	Political Science	Nil	05
	Department of Political Science	Political Science	Nil	04
	P.U. Regional Centre, Muktsar	Political Science	10	Nil
	Supervisors from difference colleges of Chandigarh	Political Science	Nil	10
9	Department of Psychology	Psychology	Nil	25
	PGGC, Sector 46, Chandigarh	Psychology	Nil	02
	PGGCG, Sector 11, Chandigarh	Psychology	Nil	04
	SD College, Sector 32, Chandigarh	Psychology	Nil	03
	MCM College, Sector 36, Chandigarh	Psychology	Nil	02
10	Department of Public Administration	Public Administration	10+2 (NRI)+2***	02
11	Department of Guru Nanak Sikh Studies, P.U.	Sikh Studies	Nil	03
12	Centre for Women Studies & Development	Women Studies	Nil	02

Important Note: Centre for the Study of Social Exclusion and Inclusive Policy has 5 seats in Ph.D. and minimum 10 seats in M.Phil. As the Centre would not conduct any entrance test on its own but the students who will qualify entrance test for the session 2018-19 from other Social Sciences disciplines be eligible to take the admission in the Centre.

** (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.

*** Reserved for the permanent teachers of affiliated colleges.

Faculty of Science

<u>Sr. No.</u>	<u>Name of the Department / College</u>	<u>Subject</u>	<u>M.Phil. Seats (subject to change)</u>	<u>No. of slots for Ph.D. (subject to change)</u>
1	Department of Anthropology	Anthropology / Optometry	Nil	03
2	Department of Bio-chemistry	Biochemistry	Nil	04
3	Department of Bio-Physics	Bio-Physics	Nil	13
4	Department of Biotechnology	Biotechnology	Nil	04
	DAV College, Sector 10, Chandigarh	Biotechnology	Nil	03
5	Department of Botany	Botany	15	10
6	Department of Chemistry	Chemistry	Nil	24
	University Institute of Engineering & Technology	Chemistry	Nil	02
7	Deptt. of Environment Studies	Environment Studies	Nil	02
8	Department of Geology	Geology	Nil	20
9	Govt. Home Science College, Sector 10, Chandigarh	Home Science	Nil	08
10	Department cum National Centre for Human Genome Studies & Research	Human Genomics	Nil	01
11	University Institute of Engineering & Technology	Mathematics	Nil	02
12	Centre for Medical Physics	Medical Physics	Nil	02
13	Centre for Microbial Biotechnology	Microbial Biotechnology	Nil	04
14	Department of Microbiology	Microbiology	Nil	04
15	Centre for Nuclear Medicine	Nuclear Medicine	Nil	01
16	Department of Physics	Physics	Nil	15
	University Institute of Engineering & Technology	Physics	Nil	04
17	Department of Statistics	Statistics	10	08
18	Centre for Stem Cell Tissue Engineering and Biomedical Excellence	Stem Cell Tissue Engineering and Biomedical Excellence	Nil	02
19	Centre for System Biology & Bioinformatics	System Biology & Bioinformatics	Nil	04
20	Department of Zoology	Zoology	10	20 (12 in Department and 08 in Approved Research Centres)

Faculty of Languages

Sr. No.	Name of the Department / College	Subject	M.Phil. Seats (subject to change)	No. of slots for Ph.D. (subject to change)
1	Department of Chinese and Tibetan Studies	Chinese, Tibetan & Buddhist	Nil	07
2	Department of English & Cultural Affairs	English	20+2 (NRI)	20
3	Department of French & Francophone Studies	French	Nil	04
4	Department of Hindi	Hindi	Nil	20
5	School of Punjabi Studies, P.U.	Punjabi	20	25
	Department of Evening Studies	Punjabi	Nil	14
	Panjab University Regional Centre, Sri Muktsar Sahib	Punjabi	15	Nil
	Guru Ravi Das Chair of Sant Sahitya Studies	Punjabi	Nil	07
6	VVBIS, & IS Hoshiarpur	Sanskrit	20	23
7	Department of Urdu	Urdu	Nil	01
	Department of Evening Studies	Urdu	Nil	03
8	Department of Urdu	Persian	Nil	03

Faculty of Education

Sr. No.	Name of the Department / College	Subject	M.Phil. Seats (subject to change)	No. of slots for Ph.D. (subject to change)
1	Department of Physical Education, P.U.	Physical Education	10+5 (NRI)	03
2	Postgraduate Govt. College, Sector 11, Chandigarh	Physical Education	Nil	06
3	Govind National College, Narangwal, Ludhiana	Physical Education	Nil	02

*** NRI Seats**

- 10% seats over and above the total number of regular seats in each course are reserved for the NRI candidates.
- NRI candidates seeking admission to any course will be required to produce the Test Scores of Scholastic Aptitude Test-II (SAT-II) with permissible combination of subjects, conducted by the Educational Testing Service, Princeton, U.S.A., for admission to under graduate courses. Graduate Record Examination (General) (GRE) from Princeton, U.S.A. or GMAT for admission to Post Graduate Courses. In case of foreign nationals (non English speaking countries), TOEFL/IELTS scores should also be produced.
- NRI candidates shall compete amongst themselves for admission to various courses. Their inter-se merit shall be determined on bases of the score obtained in SAT-II, GRE, GMAT etc.
- A candidate once admitted as NRI candidate in an undergraduate course shall be covered under the definition of NRI for subsequent admission to any Course at Panjab University.

5. Candidates who take admission under the NRI quota and are promoted from Undergraduate to Postgraduate course in the Hons. School framework (ongoing program) shall not be allowed to change their category.
6. A candidate admitted under NRI quota may change his/her admission to vacant seat provided the candidate falls within the merit of admitted candidates in General or Reserve Category.
7. NRI candidate shall have to comply with any other requirements prescribed by the Govt. of India and Panjab University from time to time.
8. NRI candidates shall provide the following certificates/ documents:-
 - a. Academic certificates of passing the qualifying or equivalent examination approved by the Association of Indian Universities (AIU)/Commonwealth Universities/International Association of Universities (IAU) as equivalent to the corresponding Indian Degrees/Certificates.
 - b. Test Score of Scholastic Aptitude Test II (SAT-II)/ GRE/GMAT/TOEFL/IELTS ETC.
9. That seats created for NRI quota shall not be allowed to be converted into General Category

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.

Foreign Nationals

Admission of the 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 regulation of the course. The seats for the eligible Foreign nationals will be additional to the already notified seats, subject to the maximum of 5% of the total sanctioned seats of the course.

Faculty of Business Management & Commerce

<u>Sr. No.</u>	<u>Name of the Department / College</u>	<u>Specialization</u>	<u>M.Phil. Seats (subject to change)</u>	<u>No. of slots for Ph.D. (subject to change)</u>
1	University Business School, Panjab University, Chandigarh	Accounting & Finance	Nil	06
		Human Resources	Nil	05
		Marketing	Nil	06
		Strategic Management	Nil	03
	Additional Seat for teacher category / Rajiv Gandhi Fellowship – (in any specialization based on marks obtained)		Nil	01
2	GGDSD College Sector 32, Chandigarh	Accounting & Finance	Nil	01
		Human Resources	Nil	01
		Marketing	Nil	01
		Strategic Management	Nil	01

Faculty of Design and Fine Arts

<u>Sr. No.</u>	<u>Name of the Department / College</u>	<u>Subject</u>	<u>M.Phil. Seats (subject to change)</u>	<u>No. of slots for Ph.D. (subject to change)</u>
1	Department of Music	Vocal & Instrumental Tabla Dance	15	08

Faculty of Engineering

<u>Sr. No.</u>	<u>Name of the Department / College</u>	<u>Subject</u>	<u>M.Phil. Seats (subject to change)</u>	<u>No. of slots for Ph.D. (subject to change)</u>
1	S.S.B. University Institute of Chemical Engineering & Technology, Panjab University, Chandigarh	Chemical Engineering	Nil	14
		Industrial Chemistry	Nil	08
		Food Technology	Nil	03
2	University Institute of Engineering and Technology	Computer Science Engineering	Nil	12
		Information and Technology Engineering	Nil	13
		Electrical & Electronics Engineering	Nil	08
		Biotechnology	Nil	09
		Mechanical Engineering	Nil	15
		Electronics & Communication Engineering	Nil	02
3	CCET, Sector 26, Chandigarh	Computer Science & Engineering	Nil	24
		Mechanical Engineering	Nil	22
		Civil Engineering	Nil	04
		Electronics & Communication	Nil	30

		Engineering		
4	University Institute of Applied Management Sciences	Information and Technology Engineering	Nil	02

Faculty of Law

<u>Sr. No.</u>	<u>Name of the Department / College</u>	<u>Subject</u>	<u>M.Phil. Seats (subject to change)</u>	<u>No. of slots for Ph.D. (subject to change)</u>
1	Department of Laws	Laws	Nil	04

In case of enrolment of M.Phil. & Ph.D. in the following subjects/ Departments / Chairs, Subject (s) of Test will be as indicated:-

- | | | |
|---|---|---|
| <ul style="list-style-type: none"> (i) Interdisciplinary Centre for Swami Vivekanand Studies (ii) Department of Guru Nanak Sikh Studies (iii) Guru Ravi Dass Chair of Sant Sahitya Studies | } | Masters degree in any Faculty with 55% marks in aggregate |
|---|---|---|

IMPORTANT NOTE:

The seats available will be subject to reservation as per Panjab University Rules and Regulations.

PROCEDURE FOR ADMISSION TO M.Phil. & Ph.D. PROGRAMME

For admission to these courses the candidates have to qualify M.Phil. & Ph.D. entrance test conducted by the Panjab University, Chandigarh.

The written test shall be followed by a mandatory interview in the form of interaction to be organized by the concerned school / department/ Institute/ Centres, as the case may be. At the time of interview, the candidates are expected to discuss their research area. Interview is essential for enrolment in M.Phil. & Ph.D. programme and selection would be solely based on the performance of the candidates in the Interview.

RESERVATION FOR M.PHIL. PROGRAMME

- (i) 15% for candidates of Scheduled Castes.
- (ii) 7 ½% for candidates of Scheduled Tribes; and
- (iii) 5% for candidates of Backward Classes as defined by the Government from time to time.
- (iv) 3% for the Persons with Disability (PwD)

ELIGIBILITY CRITERIA FOR ADMISSION TO M.PHIL. PROGRAMME

1. Candidates for admission to the M.Phil. programme shall have a Master's degree or a professional degree declared equivalent to the Master's degree by the corresponding statutory regulatory body, with at least 55% marks in aggregate or its equivalent grade 'B' in the UGC-7 point scale (or an equivalent grade in a point scale wherever grading system is followed) or an equivalent degree from a foreign educational institution accredited by an Assessment and Accreditation Agency which is approved, recognized or authorized by an authority, established or incorporated under a law in its home country or any other statutory authority in that country for the purpose of assessing, accrediting or assuring quality and standards of educational institution.
2. A relaxation of 5% of marks, from 55% to 50% or an equivalent relaxation of grade, may be allowed for those belonging to SC/ST/BC (non-creamy layer)/ PwD and other categories of candidates as per the decision of the Commission from time to time, or for those who had obtained their Master's degree prior to 19th September 1991.

ELIGIBILITY FOR TEST IN FACULTY OF ARTS, EDUCATION, LANGUAGES, SCIENCE, DESIGN AND FINE ARTS, LAW, AND ENGINEERING

Any candidate who has passed the Master's examination in the concerned subject with a score of not less than 55% (50% for SC/ST/BC/PwD Category) marks in aggregate, or have appeared in the final year examination of Master's degree in the subject concerned from Panjab University, Chandigarh or from any other University (approved by the appropriate Academic Bodies of P.U.), shall also be eligible to appear for the M.Phil. & Ph.D. Entrance Test.

For Gandhian Studies (M.Phil. & Ph.D.)

The students possessing degree of M.A. in Gandhian and Peace Studies be considered for enrolment for Ph.D. degree in the other subjects of Arts and Social Sciences provided they clear the Entrance Test in the subject in which the enrolment is sought.

For Public Administration (M.Phil. & Ph.D.)

A candidate should have obtained Masters Degree in Public Administration or Political Science or Economics or Sociology or Psychology with at least 55% (50% for SC/ST/BC/PwD Category) marks in aggregate for M.Phil. & Ph.D. in Public Administration.

For Defence Studies (M.Phil. & Ph.D.)

The candidate should have obtained Master's degree with 55% (50% for SC/ST/BC/PwD Category) marks.

For M.Phil. in Defence & Strategic Studies, the candidate should have obtained Master's degree with 55% (50% for SC/ST/BC/PwD Category) marks in aggregate. However, the Defence Personnel i.e. the officers volunteering for the course having the rank of Lt. Colonel & above are exempted from appearing in entrance test. They should have PG degree with minimum marks of 50% of PG level & should carry research related activities and involved in imparting

instructions in military related subjects; they should be conversant with formalizing concepts and doctrines.

Eligibility for Women Studies for Ph.D.

A candidate for the degree of Doctor of Philosophy in Women Studies should have obtained from the University the Master's degree with minimum of 55% (50% for SC/ST/BC/PwD Category) marks in any Faculty.

Eligibility for Swami Vivekananda Studies for Ph.D.

As per Syndicate decision (para 31 dated 27.2.2016) that Ph.D. programme be opened to the students from various discipline who have cleared UGC-NET in their own discipline or Ph.D. Entrance Examination in Swami Vivekananda Studies conducted by Panjab University. These candidates will have to do Course work in Swami Vivekananda Studies or if they want to do it in their own discipline then they will have to also pass the certificate course in Vivekananda Studies over and above Master's Degree.

Eligibility for Faculty of Education for

(i) M.Phil. in Department of Physical Education:

The qualification for admission to the course shall be M.P.Ed. of Panjab University with at least 55% marks (50% marks for SC/ST/BC Category).

OR

M.P.Ed. (two years) degree with 55% (50% marks for SC/ST/BC Category) marks of any other University recognized by Panjab University.

Minimum aggregate marks to Pass: As per University regulation.

Admission shall be on the basis of Panjab University Entrance Test.

For M.Phil. in Sociology, a candidate should have obtained Master's degree in the subject of Sociology or Anthropology (Social Anthropology) with 55%(50% for SC/ST/BC/PwD Category) marks in aggregate.

Any candidate with M.Sc. (any branch of science)/ M.Tech./M.E. (any branch of engineering)/ M.Pharm. relevant to Nanoscience and Nanotechnology would be considered as eligible to pursue Ph.D. in Nanoscience and Nanotechnology. Minimum 55% (50% for SC/ST/BC/PwD Category) marks in aggregate are required in qualifying exam and existing rules of the university will apply. Further, the final decision of enrolment will be subject to the approval by the Joint Academic Administrative Purse (JAAP) committee (subject to the approval of Syndicate/ Senate).

ELIGIBILITY FOR TEST OF FACULTY OF BUSINESS MANAGEMENT & COMMERCE

Any candidate who has obtained Master's degree with not less than 55% (50% for SC/ST/BC/PwD Category) marks in the aggregate, from Panjab University or from any other University (approved by the Academic Council) in any one of the following subjects: -

- (i) Commerce or Management

- OR
- (ii) Economics, Mathematics, Statistics, Sociology, Psychology, Public Administration, Operations Research, Social Work, Engineering and Laws.

- OR
- (iii) Any subject other than those mentioned in (i) and (ii) above provided that the candidate has either not less than 5 years' work experience at the managerial (including administrative service) level or is a member of the Faculty in the Department of University Business School, Panjab University with not less than 5 years' experience of teaching postgraduate classes.

- OR
- (iv) Master of Finance and Control (MFC)

Provided further that candidates with qualification, mentioned in (ii) & (iii) above shall be eligible for enrolment only if the area of research relates to the Faculty of Business Management and Commerce.

- (v) The following categories of candidates, who are graduates and have either a minimum 5 years' standing in the profession (practice or service) or 5 years' experience of teaching postgraduate classes, shall also be eligible:
- (a) A member (Associate or Fellow) of the Institute of Chartered Accountants of India.
 - (b) A member (Associate or Fellow) of the Institute of the Cost & Works Accountants of India.
 - (c) A member (Associate or Fellow) of the Institute of Company Secretaries of India.

University Business School, Panjab University, Chandigarh, will admit students to Ph.D. programme once in a year only, i.e. in the beginning of the session of Ph.D. Programme, as University Business School has two-semester course-work.

EXEMPTION FROM ENTRANCE TEST FOR ENROLMENT TO Ph.D.

- I. Every candidate interested in admission to Ph.D. Programme in any of the school/ department/ institute of Panjab University has to appear in Ph.D. Entrance Test except the following:-
- (i) The candidates who have qualified UGC - NET/CSIR (JRF) Examination / SLET/ GATE examination.
 - (ii) Candidates who are Teacher Fellowship Holders/ direct awardees of fellowship by DST (INSPIRE), ICMR or any other National Agency.
- In case of Science and Engineering Departments / Institutes (because of the cost of the laboratory work) it will be the decision of the Academic Committee of the Department to decide whether the candidates who have cleared SLET/ Ph.D. entrance test without fellowship be admitted to Ph.D. Programme or not.
- II. Syndicate dated 31-07-2011 (Para 17), the following categories of candidates shall be eligible for enrolment/ admission for Ph.D., if otherwise eligible:
- (i) Candidates who have cleared P.U. Entrance Test.
 - (ii) Candidates who have cleared UGC NET/ CSIR (NET)/ ICSSR/ ICHR/ICPR Examination/ SLET/GATE / Teacher Fellowship

Holders/ direct awardees of Fellowship by any national agency or any other equivalent test.

All candidates, who are eligible as per I & II above will have to go through an interaction / interview which will be conducted by the respective Academic and Administrative Committee of the Department / Institute (Research Board in case of the Faculty of Business Management & Commerce). The Selection for Registration of Ph.D. would be solely based upon on the performance of the candidate in the interaction / interview.

- III. (i) Senate dated 22.12.2012 Para (L 11) exempted the permanent (regular for Government Colleges) teachers of the Panjab University and Colleges affiliated to the Panjab University with two years' experience for admission to enrolment for Ph.D.
- (ii) One seat, over and above the prescribed limit of 8 (eight) Ph.D. student to be supervised by a faculty member, be reserved in each University teaching department / approved Research Centre for regular teachers of Colleges affiliated to Panjab University / UGC Rajiv Gandhi National Fellow for pursuing Ph.D. degree.

VALIDITY

On qualifying the M.Phil. & Ph.D. entrance test the candidate can enroll himself / herself for Ph.D. within a period of **TWO YEARS** from the date of declaration of the result of the said Test. However the Validity of Ph.D. entrance test is **Three Years** for those who have/had done M.Phil. (Syndicate para 32 dated 8.3.2015)

SCHEME OF TEST

The medium of examination shall be ENGLISH only, except in the test for language other than English, Music and Indian Theatre.

Test for Public Administration, Sociology, Social Work and Police Administration will be conducted in the medium of English, Hindi and Punjabi.

The Test shall consist of 2 papers in each subject as detailed below: -

Paper-I (Objective Type / Multiple Choice Questions)

Duration: One Hour Maximum Marks: 50

Number of questions: 50 Questions to be attempted: 50

Each question will carry one mark. **There will be no negative marking.**

Paper-II (Subjective / Descriptive Type)

Duration: Two Hours Maximum Marks: 50

Number of questions: 10 Questions to be attempted: 05

Each question will carry ten marks.

IMPORTANT NOTE

(i) For Faculty of Business Management & Commerce:

Paper I (Objective type) will be based on Research Methodology. It will be common for all the candidates.

Paper II (Subjective type) will be based on the specialization selected by the candidate in the prescribed Online Entrance Test Form.

Syllabus for Ph.D. Course (ANNEXURE-I)

(ii) For Faculty of Engineering

Paper-I (Objective type) will include MCQs on subject concerned.

Paper II (Subjective type) will be based on subject concerned.

Use of calculator for Paper-II is allowed. However, use of programmable calculator is not allowed.

(iii) For Faculty of Laws

Paper-I (Objective type) will be based upon Research Methodology, Current Legal Affairs and Identified Core Subjects as per the scheme given below:-

Research Methodology	10 Questions
Current Legal Awareness	10 Questions
Identified Core Subjects	30 Questions

Paper-II (Subjective Type) will consist of 10 questions on Identified Core Subjects. It shall be divided into 5 units and the candidate shall be required to attempt atleast one question from each unit.

The term **Identified Core Subjects** means Constitutional Law; Family Law; Commercial Law, Criminal Law and Jurisprudence.

Scheme of the test will be as described above.

RESULT

Initial evaluation will be of Paper-I (Objective Type). Only if a candidate obtains 55% (50% for SC/ST/BC/PwD) marks or more only then his/ her paper II will be evaluated.

To qualify for M.Phil. & Ph.D. enrolment the candidate must obtain at least 40% (35% for SC/ST/BC/PwD) marks in paper II.

Result of M.Phil. & Ph.D. entrance test will be available on Panjab University website results.puchd.ac.in

FELLOWSHIP: A few University fellowships are available for Ph.D. research. If successful candidates wish to be considered for the University fellowship they should report to their respective departments.

ENROLMENT TO Ph.D.

The candidates who qualify the said test shall have to directly, and independently, approach the respective department in which they want to pursue research within the period of two years from the date of declaration of result. They should submit the Enrolment Form to the concerned Department by the due date.

5% seats are reserved for the Persons with Disability (PwD) for admission in higher education at courses such as M.Phil. and Ph.D. (Section 39 of PwD Act 1995).

The reservation of seats of SC/ST/BC/PwD candidates will be departmentwise and L-shaped roster would be followed, i.e. if the number of seats in a given year

is less than 7, then the reservation will be given in the next year when the 7th seat (counting seat of both the years) become available.

The specialization within the subject for giving reservation will be decided by the department.

Reservation policy is to be followed for Ph.D. students working as Project Fellow in various Projects also. Every Project In-charge / Principal Investigator would be enjoined upon to ensure that nth Project fellow recruited under him/her is from the reserved category enlisted for reservation at the nth position e.g. every 7th project fellow is for SC Category and so on.

The registration of Ph.D. Students would be twice a year except in those departments where one year Pre-Ph.D. course work is running for which it will be once a year.

The registration shall be done in the month of January - February and July-August.

GENERAL RULES

1. Qualifying the Entrance Test shall not, ipso facto, entitle a candidate to get enrolment in the Department concerned where he / she intends to seek enrolment. This will be followed by mandatory interview. The selection would be solely based on the performance of the candidates in the interview. It will be the responsibility of the candidate to ensure his/her eligibility and fulfillment of such other conditions as may be prescribed for enrolment in the Rules and Regulations of the University. The enrolment will be subject to the availability of seats and Experts for Guidance / Supervision in the Area of Research to be chosen by the candidate and the candidate is required to verify these facts from the concerned Department before applying for the Test.
2. The Entrance Test will be held on **July 01, 2018 (Sunday)** at **Chandigarh** only.
3. Once the candidate has submitted the information on the website, any change in the Form/information, including category once marked, shall not be allowed.
4. A candidate desirous of taking the Entrance Test should submit his/her fee in any branch of State Bank of India using website generated Challan by **22-06-2018 (Friday) upto 4:00 p.m.**
5. Last date for completing the Entrance Form including uploading of photograph, signature, with rest of the information on the website is **24-06-2018 (Sunday)**.
6. The fee for the Entrance Test once paid shall not be refunded / transferred / adjusted.
7. The candidates shall be required to hand over their Answer-Sheets and the Question Papers / Booklets in full to the Centre Superintendent even if they have not attempted any question. No page/part of the Question Paper/Answer Sheet is to be removed / torn/taken out of the Examination Centre under any circumstances, failing which the candidates shall be disqualified from the entire test.
8. The use of calculator is not allowed in any subject/paper, except in Paper-II of Faculty of Engineering. But it should not be Programmable Calculator.
9. The University will provide the logarithmic table. Borrowing of log table or other material from any other person/ candidate is not allowed.
10. **No candidate shall be allowed to leave the examination hall/room before the expiry of the time allowed for the respective examination.**
11. For rough work, only the Sheets marked 'Rough Work' at the end of the question booklet/script should be used. No rough work should be done on the Answer Sheet under any circumstances.
12. Any candidate who carries any telecommunication equipment such as pager, cellular phone, wireless set, Bluetooth device, etc. inside the examination hall shall be expelled from the examination hall & disqualified.
13. If any candidate who submits multiple Online Entrance Test Forms for the same Course his/her candidature shall be considered only on the basis of one Form.
14. The candidates must bring their own stationary items such as **Black Gel Pen. Borrowing of material inside the Test Centre is strictly prohibited.**
15. **There shall be no negative marking.**

16. **There shall be no re-evaluation/re-checking/re-assessment of Answer-Sheets.** Request for seeing the Question Booklet/Evaluated Answer Sheets/Answer-Books by the candidates shall not be entertained. The evaluation once done by the University shall be taken as absolutely final.
17. If a candidate wishes to verify her/his result, s/he will be provided a photocopy of her/his Answer Sheet on payment of Rs.10,000/- **within 10 days after the declaration of the Entrance Test result.** The University office would complete the whole procedure of verification within three working days. In case, a discrepancy is found in the result of the candidate, it would accordingly be revised and the verification fee will be refunded.
18. The candidates shall be required to Answer the questions only on the Answer-Sheets provided for that purpose, as per the rules/ norms stated in the respective Answer Sheets.
19. Candidates are not allowed to carry eatables, drinks etc. into the Test Centre. Smoking inside and around the Centre is not permitted.
20. Any candidate who creates disturbance of any kind during examination or otherwise misbehaves in or around the examination hall or refuses to obey the Superintendent/Deputy Superintendent/Assistant Superintendent/any other official on examination duty or changes his/her seat with any other candidate or occupies any seat, other than the one allotted to him/her shall be expelled from the examination hall.
("Expulsion" for this purpose would mean cancellation of candidature)
21. Any candidate having in his possession or accessible to him/her papers/books or notes which may possibly be of any assistance to him /her or is found giving or receiving assistance, or copying from any paper/book or note or from anywhere else or allowing any other candidate to copy from his/her Answer book or found writing on any other paper question set in the question paper during examination, or using or attempting to use any other unfair means, or indulging in any kind of misconduct, shall be expelled from the examination hall.
("Expulsion" for this purpose would mean cancellation of candidature)
22. If any Answer Sheet of a candidate shows or if it is otherwise established that he/she has received or attempted to receive help from any source in any manner or has given help or attempted to give help to any other candidate in any manner, the relevant Answer-Sheets shall be cancelled. The decision of the Controller of Examinations, Panjab University, Chandigarh, in this regard shall be final.
23. **If a candidate writes his/her name or puts any kind of identification mark or discloses his/her identity by any method whatsoever on the cover or anywhere else in the Question Booklet/Answer Sheets, the same shall be treated as cancelled. The decision of the Controller of Examinations, Panjab University, Chandigarh, in this regard shall be final.**
24. Any person who impersonates a candidate, shall be disqualified from appearing in any Panjab University examination for a period of **five years** including this Entrance Test, if that person is a student on the rolls of a recognized College or University, he/she shall be declared as a person not fit and proper to be admitted to any examination of the Panjab University for a period of **five years**. The case, if necessary, shall also be reported to the police for any further action in the matter.
25. If it is found that a candidate has knowingly or willfully concealed or suppressed any information/fact which renders him/her ineligible to take the Entrance Test, his/her result of the Test as also admission/enrolment to a Institution/Department/Centre of the University, if granted, shall stand cancelled and he/she shall have no claim whatsoever against the Institution/ Department/ Centre concerned and the case, if necessary shall be reported to the police.
26. If a dispute or controversy of any kind arises before, during or after conduct of the Entrance Test, the decision of the Controller of Examinations, Panjab University, in all such cases, shall be final.

27. **The candidates shall be admitted to the Test only on the production of the Admit Card at the Test Centre. No candidate shall be allowed to take the test without the Admit Card under any circumstances. The candidates must retain the Admit Card with them till the enrolment process is over and must produce the same at the time of enrolment.**
28. The Admit Cards will be issued to the candidates only provisionally, at their sole risk and responsibility subject to the final confirmation of their eligibility at the time of admission / enrolment. It is further clarified that the candidates shall be taking the test at their own risk and responsibility as far as their eligibility is concerned and the University shall, in no way, be responsible if they are found to be ineligible, later, leading to cancellation of their result or any other consequence(s) emanating from the same.
29. The final date by which Roll No. will be available online is **27-06-2018 (Wednesday)**. Admit Card required to be downloaded from the website by the candidate using their own Login and Password (provided while generating Bank Challan). **There will be no physical communication for this purpose.**
30. On 17.07.2018 by 1.00 P.M., the Question Papers and Answer Keys will be put on the University website <http://exams.puchd.ac.in/show-noticeboard.php> . The candidates can file their objections regarding discrepancies and accuracy of the Key by e-mail to arcet@pu.ac.in latest by 19.07.2018. Objections received will be published on the website and cross objections will also be invited within a certain timeframe as mentioned in the Schedule for Entrance Test at Page 4. The valid concerns thus expressed will be given due consideration while evaluation.
31. The following functionaries may be contacted for extremely urgent enquiry, if any, only on working hours i.e. from Monday to Friday (from 10:00 a.m. to 4:00 p.m.).

1. Assistant Registrar (C.E.T.)	0172 – 2534829, 9855018541
2. Superintendent (C.E.T.)	9872073559
3. Controller of Examinations	0172 – 2534811
4. Main Enquiry Office	0172 – 2534818, 2534819, 2534866, 18001802065, 9988815024

GROUP – IV

STRATEGIC MANAGEMENT

Fundamentals of Micro Economic and Macro Economics; Forces in the External Environment economic and non-economic; Forces in the Internal Environment; Formulation and Implementation of Corporate Level Strategy, Global Strategy, Business Level Strategy, and various Functional Level Strategies- including Marketing Strategy, Human Resources Strategy, Operation Strategy and Financial Strategy; Entrepreneurship and Strategies for Entrepreneurial Ventures.

The Syllabi of above mentioned subjects are available on the website of Panjab University for the MBA, MBA (HR), MBA (IB) and M.Com. (Hons.) classes taught at University Business School.