

# PANJAB UNIVERSITY CHANDIGARH



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

**PH.D. -2023 ENTRANCE TEST TO BE  
HELD ON 24-09-2023 (Sunday)**

**Last date for submission of information on the website to  
generate Login ID and Password: 25-08-2023 (Friday)**

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

**FEE (Non-refundable):**

General Category Rs. 2395/-

SC/ST/PwD Category Rs. 1198/-

Additional Paper Rs. 1000/-

(If the candidate applies for UBS and UIAMS both)

## 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-2023

Date of availability of Ph.D. Prospectus and Online Entrance Test Form on the website of Panjab University, Chandigarh	07-07-2023 (Friday)
Last date for submission of information on the website to generate the Login ID and Password	25-08-2023 (Friday)
Last date for deposit of fee through Online Mode	29-08-2023 (Tuesday)
Last date for uploading of photograph, signature with rest of the information on the website <a href="https://phdadmissions.puchd.ac.in">https://phdadmissions.puchd.ac.in</a>	01-09-2023 (Friday)
Last date for submission of printout of form along with required documents for claiming the concession of Entrance Test Fee for SC/ST/PwD/PU Employee to Assistant Registrar, CET Cell, Aruna Ranjit Chandra Hall, Panjab University, Chandigarh - 160014 by registered post / speed post or by hand	04-09-2023 (Monday)
<b>Final date by which Roll No. Will be available online</b> Roll No. And Centre of Examination will be generated and Roll No. Slip required to be downloaded from the website by the candidate using their own Login and Password. <b>There will be no physical communication for this purpose.</b>	15-09-2023 (Friday)
Candidates who have not completed their form but have paid their requisite fee, can complete their form by paying (from 10:00 a.m. to 4:00 p.m.) late fee of Rs. 500/-	21-09-2023 (Thursday)
Date of Holding Entrance Test	<b>24-09-2023 (Sunday)</b>
Uploading of Answer Key and inviting Objections (through e-mail to <a href="mailto:arcet@pu.ac.in">arcet@pu.ac.in</a> )	04-10-2023 (Wednesday)
Last day of submission of objections to the Answer key	06-10-2023 (Friday)
Uploading of the response to the Objections and inviting Cross-objections (through e-mail only)	13-10-2023 (Friday)
Last day of submission of Cross-objections to the Answer key	15-10-2023 (Sunday)
Date of declaration of result	09-11-2023 (Thursday) The result will be posted on the P.U. website <a href="https://results.puchd.ac.in">https://results.puchd.ac.in</a> and the same could be downloaded. No separate result cards will be issued to the candidates by the office.
Centre for Entrance Test	Chandigarh Only

<b>DATE SHEET</b>		
Date & Day	Paper	Time
<b>24-09-2023 (Sunday)</b>	<b>Paper-I (Objective type)</b>	<b>10.00 a.m. – 11.00 a.m.</b>
	<b>Paper-II (Subjective type)* (For all faculties except UIAMS deptt.)</b>	<b>11.30 a.m. – 1.30 p.m.</b>
	<b>Paper-II (Subjective type)** (FOR UIAMS Department Only)</b>	<b>2.30 p.m. – 4.30 p.m.</b>

\* in case student of UIAMS wants to appear, they must opt an option from UBS.

\*\* in case student of UBS wants to appear, they must opt an option from UIAMS.

\*\*\* A student can appear in both the exams for UBS and UIAMS.

## IMPORTANT NOTES

1. The Fee for Ph.D. Entrance Test is Rs. 2395/- (Rs. 1198/- 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 **04-09-2023 (Monday)** 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 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 Ph.D. only after the declaration of the result of the Ph.D. Entrance Test-2023.**

## PANJAB UNIVERSITY, CHANDIGARH

### GENERAL INFORMATION

The Panjab University, Chandigarh will hold an Entrance Test for enrolment to Ph.D. in the Faculties of Arts, Business Mgt. & Commerce; Design & Fine Arts, Engineering, Education, Languages, Pharmaceutical Sciences and Science.

#### Faculty of Arts

<b>Sr. No.</b>	<b>Name of the Department / College</b>	<b>Subject</b>	<b>No. of slots for Ph.D. (subject to change)</b>
1	Department of Ancient Indian History, Culture & Archaeology	Ancient Indian History & Archaeology	02
2	Department of Economics	Economics	<b>05 (4 Gen + 1 SC)</b>
3	Department of Evening Studies	History	02
4	Department of Evening Studies	Political Science	02
5	Department of Psychology	Psychology	<b>38 (26 Gen + 6SC + 3ST+ 2BC + 2PwD)</b>
6	Department of Public Administration	Public Administration	04
7	Department of Guru Nanak Sikh Studies, P.U.	Sikh Studies	02

#### Faculty of Science

<b>Sr. No.</b>	<b>Name of the Department / College</b>	<b>Subject</b>	<b>No. of slots for Ph.D. (subject to change)</b>	
1	Department of Anthropology	Anthropology	01	
2	Department of Botany	Botany	<b>10 (Gen+6 SC+2 ST+1 BC+1 Pwd+1)</b>	
3	Department of Bio-Physics	Bio-Physics	<b>08 (6 Gen +1 SC+ 1 ST)</b>	
4	S.D College Sec 32 Chandigarh	Chemistry	16	Allocation within the branch / specialization have been tentatively earmarked against 84 seats
	UIET, Sector 25, P.U., Chandigarh		02	
	PGGCG, Sec. 11, Chandigarh		12	
	DAV College, Sector 10, Chandigarh		52	
	DAV College, Abohar		02	
		<b>84 (57 Gen + 13 SC +6 ST+4 BC+4 PwD)</b>		
5	Deptt. of Geology	Geology	<b>12 (08 Gen + 2 SC + 1 ST + 1 BC)</b>	
6	Govt. Home Science College, Sector 10, Chandigarh	Home Science	Subject to availability	
7	Department cum National Centre for Human Genome Studies & Research	Human Genomics	<b>07 (5 Gen + 1 SC + 1 ST)</b>	
8	Department of Microbial Biotechnology	Microbial Biotechnology	04	
9	Department of Microbiology	Microbiology	04	
10	Department of Physics	Physics	01	
	UIET, Sector 25, P.U., Chandigarh		01	

## Faculty of Business Management & Commerce

<u>Sr. No.</u>	<u>Name of the Department / College</u>	<u>Specialization</u>	<u>Total Seats (including Reserved Seats indicated)</u>			<u>Sectoral Topic Doctoral Thesis (from any of the following only)</u>
1	University Business School, Panjab University, Chandigarh	Finance & Accounting	6	SC-1	ST-1	
		Human Resource	6	SC-1	BC-1	
		Marketing	6	SC-1	PWD-1	
		Strategic Management	3	SC-1		
		Business Economics / Information Systems / Operations	4	ST-1		
	Besides the above, Teacher's Category as per P.U. rules. This seat will be filled on the basis of merit in any of the above area.		01 (Gen.)			
2	Department of Evening Studies	Human Resource		01		
3	University School of Open Learning	Human Resource		01		
4.	Panjab University Regional Centre, Ludhiana	Finance & Accounting		01 (Gen)		
		Marketing		01 (Gen)		
5.	GGDSD College, Sector 32, Chandigarh	Finance & Accounting		01 (Gen)		
		Marketing		01 (Gen)		
6.	Teacher's Category as per P.U. rules The candidate admitted under this Category has an option to pursue Ph.D. at any of the aforesaid Research Centre/ Institute etc.			01 (Gen)		Marketing / Finance & Accounting / Human Resources / Strategic Management
7.	University Institute of Applied Management Sciences	Retail Management		03		Allocation within the branch / specialization have been tentatively earmarked against 19 seats
		Banking & Insurance Management		03		
		Capital Markets		03		
		Information Systems		03		
		Infrastructural Management		03		
		Healthcare Management		04		
			<b>19 (14 Gen + 3 SC+ 1 ST + 1 BC+ 1 PwD)</b>			

- (i) The Course work for all the above-said seats would be conducted at UBS/ concerned department, P.U., Chandigarh.
- (ii) The above-mentioned seats are exclusive to each department/institute/Regional Centre. The candidates who have been offered seats would be required to opt for a Research Supervisor from the concerned department/institute/Regional Centre only. However, the Co-Supervisor, if need be, can be opted by the candidate from anywhere.
- (iii) Synopsis Presentation would be required to be made by candidates (who have successfully completed the Pre-Ph.D. Course Work) before the members of the Research Board and respective Research Advisory Committee in UBS, P.U. Chandigarh.

## Faculty of Languages

<u>Sr. No.</u>	<u>Name of the Department / College</u>	<u>Subject</u>	<u>No. of slots for Ph.D. (subject to change)</u>
1	Department of Evening Studies- Multi-disciplinary Research Centre	English	03

2	Department of Hindi	Hindi	03
3	School of Punjabi Studies, P.U.	Punjabi	20 (14 Gen + 3 SC + 1 ST + 1 BC + 1 PwD)
	Department of Evening Studies- Multi-disciplinary Research Centre	Punjabi	06

### **Faculty of Design and Fine Arts**

<b><u>Sr. No.</u></b>	<b><u>Name of the Department / College</u></b>	<b><u>Subject</u></b>	<b><u>No. of slots for Ph.D. (subject to change)</u></b>
1	Department of Music	Vocal & Instrumental	04 (3 Gen + 1 SC)
	P.G.G.C.G., Sector 11, Chandigarh	Vocal & Instrumental	06 (5 Gen + 1 SC)
2	Department of Art History & Visual Arts	Art History & Visual Arts	06

### **Faculty of Engineering**

<b><u>Sr. No.</u></b>	<b><u>Name of the Department /College</u></b>	<b><u>Subject</u></b>	<b><u>No. of slots for Ph.D. (subject to change)</u></b>	
1	University Institute of Engineering and Technology	Computer Science Engineering	25	Allocation within the branch / specialization have been tentatively earmarked against 177 seats
		Information Technology	25	
		Biotechnology	17	
		Mechanical Engineering	51	
		Electrical and Electronics Engg.	36	
		Electronics and Communication Engg.	23	
			<b>177 (119 + 27 SC + 13 ST + 9 BC + 9 PwD)</b>	
2	National Institute of Technical Teachers Training & Research	Civil Engineering	08 (5 Gen + 1 SC + 2 OBC)	Reservation followed in accordance with Central Government / Union Territory)
		Computer Science & Engineering	05 (4 Gen + 1 OBC)	
		Electrical Engineering	15 (8 Gen + 2 SC + 2 OBC + 1 ST + 1 EWS)	
		Electronics and Communication Engineering	27 (13 Gen + 4 SC + 7 OBC + 1 ST + 2 EWS)	
		Mechanical Engineering	19 (10 Gen + 2 SC + 1 ST + 1 EWS + 5 OBC)	
3.	Dr. S.S.B. UICET, P.U., Chandigarh	Chemical Engineering	07	Allocation within the branch / specialization have been tentatively earmarked against 23 seats
		Food Technology	08	
		Industrial Chemistry	08	
			<b>23 (16 Gen + 3 SC + 2 ST + 1 BC + 1 PwD)</b>	

### **Faculty of Pharmaceutical Sciences**

<b><u>Sr. No.</u></b>	<b><u>Name of the Department / College</u></b>	<b><u>Specialisation</u></b>	<b><u>No. of vacant seats</u></b>	
1	University Institute of Pharmaceutical	Pharmaceutics, Pharmaceutical Analysis, Quality Assurance	18	Allocation within the branch / specialization have been tentatively



	Sciences	Pharmaceutical Chemistry, Pharmaceutical Analysis, Quality Assurance	26	earmarked against 69 seats
		Pharmacology	12	
		Pharmacognosy, Pharmaceutical Analysis, Quality Assurance	13	
			<b>69</b> (48 Gen + 10 SC + 5 ST +3 BC+ 3 PwD)	

### **Faculty of Education**

<b><u>Sr. No.</u></b>	<b><u>Name of the Department / College</u></b>	<b><u>Subject</u></b>	<b><u>No. of slots for Ph.D. (subject to change)</u></b>	
1	Research Centres, Chandigarh	Physical Education	10 (7 Gen + 2 SC +1 ST +1BC)	Allocation within the Research Centres have been tentatively earmarked against 10 seats

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

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

#### **IMPORTANT NOTE:**

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

#### **PROCEDURE FOR ADMISSION TO Ph.D. PROGRAMME**

For admission to these courses the candidates have to qualify Ph.D. entrance test conducted by the Panjab University, Chandigarh. Procedure for admission to Ph.D. Programme will be followed as per the Guidelines approved by the Panjab University and circulated vide letter No. ST.4313-4512 dated 01-06-2023.

#### **ELIGIBILITY CRITERIA FOR ADMISSION TO Ph.D. PROGRAMME**

1. Candidates who have completed:
  - (i) A 1-year / 2-Semester master's degree programme after a 4 year/ 8 semester bachelor's degree programme or a 2 year / 4 year semester master's degree programme after a 3 year bachelor's degree programme or qualifications declared equivalent to the master's degree by the corresponding statutory regulatory body, with at least 55% marks in aggregate or its equivalent grade in a point scale wherever grading system is followed  
**OR** equivalent qualification from a foreign educational institution accredited by an assessment and accreditation agency which is approved, recognised or authorized by an authority, established or incorporated under a law in its home country or any other statutory authority in that country to assess, accredit or assure quality and standards of the educational institution,

- (ii) A relaxation of 5% marks or its equivalent grade may be allowed for those belonging to SC/ST/OBC (non-creamy layer) / Differently-Abled, Economically Weaker Section (EWS) and other categories of candidates as per the decision of the Commission from time to time.
  - (iii) Provided that a candidate seeking admission after a 4 year / 8 semester bachelor's degree programme should have a minimum of 75% marks in aggregate or its equivalent grade on a point scale wherever the grading system is followed. A relaxation of 5% marks or its equivalent grade may be allowed for those belonging to SC/ST/OBC (non-creamy layer)/ Differently- Abled, Economically Weaker Section (EWS) and other categories of candidates as per the decision of the Commission from time to time.
2. Candidates who have completed the M.Phil. programme with at least 55% marks in aggregate or its equivalent grade in a point scale wherever grading system is followed or equivalent qualification from a foreign educational institution accredited by an assessment and accreditation agency which is approved, recognised or authorized by an authority, established or incorporated under a law in its home country or any other statutory authority in that country to assess, accredit or assure quality and standards of educational institutions, shall be eligible for admission to the Ph.D. programme. A relaxation of 5% marks or its equivalent grade may be allowed to those belonging to SC/ST/OBC (non-creamy layer) / Differently- Abled, Economically Weaker Section (EWS) and other categories of candidates as per the decision of the University Grant Commission from time to time,

#### **ELIGIBILITY FOR TEST IN FACULTY OF PHARMACEUTICAL SCIENCES**

1. (a) Bachelor degree of Pharmacy.  
 (b) Master's degree of Pharmacy in Pharmaceutical Chemistry / Pharmaceutics/ Pharmacognosy / Pharmacology / Pharmaceutical analysis / Pharmaceutical Quality Assurance/ Pharmaceutical Analysis & Quality Assurance / Drug Discovery and Drug Development

OR

Master's degree (M.Pharm., M.Sc., M.S., M.Tech. program) related to subjects listed under 1-b viz. Master's degree in Industrial Pharmacy / Pharmaceutical Technology / Regulatory Affairs/ Pharmaceutical biotechnology /Pharmacy Practice / Phytopharmacy & Phytomedicine / Medicinal Chemistry / Pharmacoinformatics / Natural Products / Traditional medicine / clinical research / Technology (Formulations) / Pharmacology & Toxicology / Pharm. Technology (Process Chemistry) / Regulatory Toxicology / Pharm. Technology (Biotechnology) etc. related to subjects listed under 1-b above with equivalence of course content. The equivalence shall be examined and decided by the Academic Committee of the UIPS.

#### **ELIGIBILITY FOR TEST IN FACULTY OF ARTS, EDUCATION, LANGUAGES, SCIENCE, DESIGN AND FINE ARTS**

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 be eligible to appear for the Ph.D. Entrance Test.

#### **For Public Administration (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 Ph.D. in Public Administration.

#### **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 TEST OF FACULTY OF ENGINEERING**

Master's degree in Engineering or Technology in the subjects of Computer Science & Engineering / Electronics & Communication / Electrical & Electronics / Information Technology / Mechanical / Biotechnology/ Materials / Microelectronics or an Allied subject approved by AICTE. For Ph.D. in the Subjects related to applied Science, Master's degree in Science in (Physics/ Chemistry / Mathematics) or Allied subjects (The candidates will be enrolled in Faculty of Science).

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 be eligible to appear for the Ph.D. Entrance Test.

### **For Chemical/ Food Technology / Industrial Chemistry**

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 be eligible to appear for the Ph.D. Entrance Test.

### **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 / University Institute of Applied Management Sciences, 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 / University Institute of Applied Management Sciences has two-semester course-work.

**EXEMPTION FROM ENTRANCE TEST FOR ENROLMENT TO Ph.D. AS PER THE CIRCULAR NO. ST. 4313-4512 DATED 01-06-2023**

Panjab University shall admit Ph.D. scholars through Entrance Test conducted at the level of the University.

- i. However, exemption from entrance test will be given to those who have already cleared any of the National Test for the eligibility of lectureship like UGC/ CSIR NET including JRF, GATE, CEED, GPAT, ICMR, ICAR, or any other prestigious test for National level scholarship / fellowship conducted by Govt. of India.
- ii. Direct awardees of National / International fellowship for pursuing Ph.D. and working regular teachers of Panjab University are exempted from the entrance test.
- iii. The GATE/ GPAT or any other national level test meant for admission to Ph.d. be considered as per validity of score card.
- iv. **Ph.D. Entrance Test of Panjab University for admission to Ph.D. shall be valid for 3 years.**
- v. The Entrance Test syllabus shall consist of 50% of research methodology and 50% shall be subject specific.
- vi. Students who have secured 50% marks in the entrance test are eligible to be called for the interview.
- vii. A relaxation of 5% marks will be allowed in the entrance examination for the candidates belonging to SC/ST/OBC/differently-abled category, Economically Weaker Section (EWS), and other categories of candidates as per the decision of the UGC from time to time.
- viii. Panjab University may decided the number of eligible students to be called for an interview based on the number of Ph.D. seats available in the respective departments/ approved research centres.
- ix. Provided that for the selection of candidates a weightage of 70% for the Academic Performance Index and 30% for the performance in the interview / viva-voce shall be given.
- x. **With regard to admission in Ph.D. for foreign students, the following guidelines shall be followed:-**
  - (a) International/ Foreign students who are being sponsored by the government body such as the ICCR or MHRD or a government agency of their own country, will be given direct admission to Ph.D. subject to the approval of the concerned department or centre.
  - (b) International / Foreign students who have been studying in India and are present in India at the time of the Ph.D. CET will have to sit for the test and clear it in order to be considered for enrolment.
  - (c) The International / Foreign students who are not present in India at the time of the Panjab University Ph.D. CET will need to achieve at least band 5 in IELTS Academic or 60 in TOEFL or 150-154 in GRE or 600 in GMAT. At the time of filling the enrolment form the candidate must attach the score in any one of the above tests. However, all such candidates will have to qualify in the interview.

**SCHEME OF TEST**

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

Test for Public Administration, Sociology, Social Work, Police Administration and Music 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.**

**IMPORTANT NOTE:** There will be 25 questions on Research Methodology in Part A and 25 MCQs on Subject specialization in Part B).

**Paper-II (Subjective / Descriptive Type)**

Duration: Two Hours Maximum Marks: 50  
Number of questions: 08 Questions to be attempted: 05  
Each question will carry ten marks.

**IMPORTANT NOTE:** (There will be FOUR questions on Research Methodology in Part A and FOUR questions on Subject Specialization in Part B in Paper II. Out of that the candidate is expected to attempt FIVE questions atleast two questions from each Part in Paper II).

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

**RESULT**

**Initial evaluation will be of Paper-I (Objective Type). Only if a candidate obtains 40% (35% for SC/ST/BC/PwD) marks or more only then his/ her paper II will be evaluated.**

**However, the total qualifying marks for Paper I and II would be 50%. (Syndicate Para 2 dated 08-03-2020).**

**Result of Ph.D. entrance test will be available on Panjab University website [results.puchd.ac.in](https://results.puchd.ac.in)**

**INTERVIEW**

Panjab University shall conduct entrance examination as a qualifying examination for admission to Ph.D. once a year (with exemption of test to categories mentioned in Page No. 12 & 13 of the Prospectus). However, to facilitate admission of candidates before the expiry of the validity of entrance examination / JRF offer letter, the application for admission to Ph.D. shall be accepted throughout the year. All accepted applications shall be processed for admission in three cycles in a year (i.e. in the months of January, May and September). However, in case of research fellows employed under any state/ central/ international research projects, their applications for admission to Ph.D. shall be processed throughout the year provided they fulfill eligibility guidelines. In each admission cycle a fresh merit list shall be prepared.

**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.

**RESERVATION PROCEDURE**

- i. Adhere to the National / State-level reservation policy, as applicable taking cumulative number of seats in each admission cycle during over a period of one year.
- ii. The reservation of seats of SC/ST/BC/PWD candidates will be department-wise and L-shaped roster would be followed, i.e., if the number of seats in a given admission cycle is less than 7, then the reservation will be given in the next admission cycle when the 7<sup>th</sup> seat (counting seats of both the admission cycles) becomes available. Similarly, if cumulative number of seats in first two cycles is less than 7, then the reservation will be given in third cycle when 7<sup>th</sup> seat (counting seats of all three admission cycles) becomes available. At the end of year (i.e. all three cycles), if number of seats is less than 7, then the reservation will be given in the next year when the 7<sup>th</sup> seat (counting seats of last three and 1<sup>st</sup> cycle of the current years) becomes available.
- iii. The specialisation within the subject for giving reservation will be decided by the department. Reservation policy is to be followed for Ph.D. scholars working as Project Fellows 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 7<sup>th</sup> project fellow is for SC category and so on.

**IMPORTANT NOTE: ANY MODIFICATION REGARDING PH.D. -2023 ENTRANCE TEST WILL BE UPLOADED ON THE WEBSITE [HTTPS://PHDADMISSIONS.PUCHD.AC.IN](https://phdadmissions.puchd.ac.in) LATER ON.**

## 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 **24-09-2023 (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 through Online mode by **29-08-2023 (Tuesday)**.
5. Last date for completing the Entrance Form including uploading of photograph, signature, with rest of the information on the website is **01-09-2023 (Friday)**.
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 (OMR Answer sheet only) 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 **15-09-2023 (Friday)**. Admit Card required to be downloaded from the website by the candidate using their own Login and Password. **There will be no physical communication for this purpose.**
30. On 04-10-2023, 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](mailto:arcet@pu.ac.in) latest by 06-10-2023. 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
2. Superintendent (C.E.T.)	0172-2534829, 9814666346
3. Dealing official (C.E.T.)	9872812339
3. Controller of Examinations	0172 – 2534811
4. Main Enquiry Office	0172 – 2534818, 2534819, 2534866, 18001802065





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, Infrastructure Management.

#### **GROUP – V (i)**

##### **INFORMATION SYSTEM**

Role of IS in Business, Globalisation Challenges and Opportunities, E-Business, IT role in Business enhancement, TPS, E-Commerce, E-Governance, IS Organisations and Strategic, Ethical & Social issues in IS, Cyber bullying, Managerial Decision. Making and Information System, Enterprise Resource Planning, IT Evolution and its Implications for Business, IT Infrastructure components, Contemporary Hardware trends, Contemporary Software trends, Business Intelligence-Databases and Information Management, Database approach to data management, Multidimensional data analysis, data mining, database and web, Telecommunications, Internet & Wireless Technology, Communications Networks, Internet, Wireless networks in Business, Malicious Software Technologies and tools for protecting Information system, HR issues in IT Industry.

#### **GROUP – V (ii)**

##### **BUSINESS ECONOMICS**

Theory of demand, techniques for demand forecasting, Theory of consumer behavior, Production function, Modern theory of cost and its application, profit theories, Factor pricing theory, Classical and Keynesian approaches to theory of income, Theories of Consumption, Aggregate Demand and Aggregate Supply Analysis; Demand for money and determinants of money supply, Inflation and unemployment, Monetary and Fiscal policies, Modern theory of trade and trade Policy, Free Trade versus Protection, Theories of balance of payment and exchange rate determination. Role of industrialization in economic development, Industrial growth in India during plans, India's industrial policies, Role and performance of public sector enterprises, performance and problems of micro, small, medium enterprises in India. International economic environment, Globalisation and its impact, Multinational Corporations, Foreign investment.

#### **GROUP – V (iii)**

##### **OPERATIONS**

Operations research: Linear and non-linear Optimization, Transportation and Assignment problems, Simulation theory and methods, Convexity, Decision theory analysis, Theory of games, Production and service systems, Logistics systems, Queuing theory, Product and service design, Product Quality TQM, Facility location and layout, Capacity and equipment selection, Operations scheduling, Supply chain management, Enterprise resource management, JIT production systems, Material management and Inventory management, Sequencing problems, PERT/ CPM – probability considerations in PERT, Replacement models.

## **Ph.D. IN APPLIED MGT. AND SECTORAL DOMAINS AT UIAMS**

### **GENERAL PAPER**

Indian Financial System and its structure, Indian Banking System, Nationalisation of banks, Financial sector reforms and their impact; Introduction to Retail Banking, Wholesale banking, Investment banking, International banking; Regulatory framework of banks in India.

Introduction to Retailing, Basic Retail Concepts, Strategic Retail Planning Process; Understanding the Retail Customer; Delivery value through retail formats; role of Customer services and Relationship Marketing in Retail, Retail location & Site decision Evaluating Areas for location.

Emerging Trends in Infrastructure Development: Sustainable Societies: Meaning & Definition, Smart Cities: Meaning & Definition, Objectives, Smart Solutions, Features of Smart Cities: Sustainable and environment-friendly public transport solutions, Public Private Partnership: Definition, The Rationale for Public Private Partnerships, PPP vs. Privatization, Public Private Partnerships: an Indian Perspective.

Information Systems: Role of IS in Business. Globalisation Challenges and Opportunities, E-Business: IT role in Business enhancement, TPS, E-Commerce, E-Government, IS Organisations and Strategy, Ethical & Social issues in IS, Cyber bullying.

Global and Indian healthcare Industry, Opportunities and challenges for the healthcare industry, contemporary issues in healthcare industry, healthcare delivery system in India, Environmental and community health.