

# PANJAB UNIVERSITY CHANDIGARH



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

## PROSPECTUS

Ph.D.-2012

**Date of Test: 22<sup>nd</sup> July 2012**

**Ph.D. FEE:**

General Category Rs. 1800/-

SC/ST Category Rs. 900/-

## PANJAB UNIVERSITY ANTHEM

तमसो मा ज्योतिर्गमयः  
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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 रोज पढ़ा कर  
सही गलत की समझ बढ़ाता  
जीवन पुस्तक रोज 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:

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### **Price (Including Entrance Test Fee)**

General Category	Rs. 1800/-
SC/ST Category	Rs. 900/-

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.

Date of Test: **22-07-2012 (Sunday)**

### **IMPORTANT DATES/INFORMATION FOR ENTRANCE TEST-2012**

Date of advertisement regarding test & other information relevant thereto	04-06-2012 (Monday)
Date of availability of Ph.D. Prospectus and Application Form on the website of Panjab University, Chandigarh	04-06-2012 (Monday)
Last date for submission of information on the website to generate the Bank Challan	02-07-2012 (Monday)
Last date for deposit of fee in any branch of State Bank of India using website generated challan	04-07-2012 (Wednesday) <b>upto 4:00 p.m.</b>
<b>Last date for submission of fee details (journal no.; branch code and date of deposit given by Bank) and uploading of photograph, signature with rest of the information on the website</b>	<b>07-07-2012 (Saturday)</b>
No correction will be entertained / made regarding photograph, signature and any other information after <b>10-07-2012, 5:00 p.m.</b>	10-07-2012 (Tuesday)
<b><u>Final date by which Roll No. will be available online</u></b> E-Admit Card required to be downloaded from the website by the candidate using their own Login and Password (provided while generating Bank Challan). <b><u>There will be no physical communication for this purpose.</u></b>	16-07-2012 (Monday)
<b>Date of Entrance Test</b>	<b>22-07-2012 (Sunday)</b>
Tentative date of declaration of result	10-08-2012 (Friday)
Result Cards	Result cards can be downloaded from the website. No separate result cards will be issued to the candidates by the office.

<b><u>DATE SHEET</u></b>		
<b>Date &amp; Day</b>	<b>Paper</b>	<b>Time</b>
<b>22-07-2012 (SUNDAY)</b>	<b>Paper-I</b>	<b>10.00 a.m. – 11.00 a.m.</b>
	<b>Paper-II</b>	<b>11.30 a.m. – 1.30 p.m.</b>

## **PANJAB UNIVERSITY, CHANDIGARH**

### **GENERAL INFORMATION**

The Panjab University, Chandigarh will hold an Entrance Test for enrolment to Ph.D. in the Faculties of Arts, Design & Fine Arts, Engineering, Languages, Law, Science, on **SUNDAY, July 22, 2012, at CHANDIGARH.**

#### **Faculty of Arts**

<b>Name of the Subject</b>
Ancient Indian History, Culture & Archeology
Economics
Geography
Defence & National Security Studies
History
Psychology
Police Administration
Political Science
Public Administration
Social Work
Sociology

#### **Faculty of Languages**

<b>Name of the Subject</b>
English
French
Tibetan / Buddhist Studies
Hindi
Persian
Punjabi
Sanskrit (Department & VVIS&IS, Hoshiarpur)
Urdu

#### **Faculty of Science**

<b>Name of the Subject</b>
Anthropology
Botany
Biochemistry
Biophysics
Chemistry
Computer Science
Environment Studies
Geology
Human Genome Studies & Research
Microbiology
Microbial Biotechnology
Nanoscience & Nanotechnology
Nuclear Medicine
Physics
Statistics
Stem Cell and Tissue Engineering
Zoology

#### **Faculty of Design & Fine Arts**

<b>Subject</b>
Music
Indian Theatre
Fashion and Technology

#### **Faculty of Laws**

Department of Laws, P.U., Chandigarh
University Institute of Legal Studies, P.U., Chandigarh
Panjab University Regional Centre, Ludhiana

## Faculty of Engineering

<b>University Institute of Chem. Engg. &amp; Tech., P.U. Chandigarh</b>
<b>BRANCHES</b>
Chemical Engineering
Industrial Chemistry
Food Technology
<b>University Institute of Engineering &amp; Technology, P.U., Chandigarh</b>
<b>BRANCHES</b>
Computer Science & Engineering
Biotechnology Engineering
Electrical & Electronics Engineering
Mechanical Engineering
<b>National Institute of Technical Teachers' Training &amp; Research, Sector 26, Chandigarh</b>
<b>BRANCHES</b>
Manufacturing Technology
Construction Technology & Management
Computer Science & Engineering
Instrumentation & Control

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

- |   |   |   |
|---|---|---|
| (i) Dayanand & Vedic Studies              | } | any subject from the<br>Faculty of Arts/<br>Languages |
| (ii) Swami Vivekanand Studies             |   |   |
| (iii) Guru Nanak Sikh Studies             |   |   |
| (iv) Sri Guru Granth Sahib Studies (SGGS) |   |   |

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

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

The candidates shall be admitted to Ph.D. Programme either directly or through M.Phil. Programme. For admission to these courses the candidates have to qualify 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, 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 Ph.D. Programme.**

## **ELIGIBILITY FOR TEST IN FACULTY OF ARTS, 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 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 Ph.D. Entrance Test.

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.

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% marks 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).

## **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/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.

- (iii) Sponsored Foreign Students holding valid Research Visa for doing Ph.D. under the ICCR or other Academic Exchange Programme fellowships of Governments. However, each such case shall be decided by the Academic Committee of the concerned Department.
- 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)/ ICSS/ ICHR/ICPR Examination/ SLET/GATE / Teacher Fellowship holders/ direct awardee of Fellowship by any national agency or any other equivalent test.

However, if the number of successful candidates in the above categories comes to more than the number of seats available in a Department, the Department concerned will prepare the merit list based upon the marks obtained by the candidate in Master's degree. An additional weightage of 20% marks will be given to those who have obtained Fellowship from any national agency mentioned in (ii) above.

### **VALIDITY**

On qualifying the 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.

### **SCHEME OF TEST**

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

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 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.**

(ii) **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**

(i) **For Faculty of Laws**

**The candidate who secures 40% in the first paper, his/her second paper will be evaluated (vide Syndicate Para-29 dated 30.10.2010)**

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

(ii) **For Other Faculties**

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

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

**Result of Ph.D. entrance test will be available at Panjab University Single Window Enquiry and also on University website [results.puchd.ac.in](http://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.

## 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. 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. ONCE PAID, THE COST OF PROSPECTUS FOR THE ENTRANCE TEST SHALL IN NO CASE BE REFUNDED.
3. THE ENTRANCE TEST WILL BE HELD AT CHANDIGARH, ON **SUNDAY, JULY 22, 2012**.
4. **FOR BLIND CANDIDATES: ANY BLIND CANDIDATE CAN AVAIL OF THE SERVICES OF A WRITER. THE MAXIMUM QUALIFICATION OF A WRITER IS 10+2. HE/ SHE SHOULD NOT HAVE ATTAINED THE ABOVE-MENTIONED QUALIFICATION MORE THAN ONE YEAR PRIOR TO THE ENTRANCE TEST. THE INTERESTED BLIND CANDIDATES SHOULD CONTACT THE ASSISTANT REGISTRAR, CET CELL ONE WEEK BEFORE THE COMMENCEMENT OF THE ENTRANCE TEST TO FULFILL THE FORMALITIES FOR THE ASSIGNMENT OF A WRITER.**
5. E-ADMIT CARDS WILL BE ISSUED TO THE CANDIDATES **PROVISIONALLY**. THE CANDIDATES SHALL BE TAKING TEST AT THEIR OWN RISK AND RESPONSIBILITY SUBJECT TO FINAL CONFIRMATION OF THEIR ELIGIBILITY AT THE TIME OF ENROLMENT. 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.
6. THE CANDIDATES SHALL BE ADMITTED TO THE TEST ONLY ON THE PRODUCTION OF THE E-ADMIT CARD AT THE TEST CENTRE. NO CANDIDATE SHALL BE ALLOWED TO TAKE THE TEST WITHOUT THE E-ADMIT CARD UNDER ANY CIRCUMSTANCES. THE CANDIDATES MUST RETAIN THE E-ADMIT CARDS WITH THEM TILL THE ENROLMENT PROCESS IS OVER AND MUST PRODUCE THE SAME AT THE TIME OF ENROLMENT.
7. 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.

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. 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.
11. THE CANDIDATES ARE NOT PERMITTED TO CARRY ANY TELECOMMUNICATION EQUIPMENT SUCH AS PAGER, CELLULAR PHONE, WIRELESS SET, ETC., INSIDE THE EXAMINATION HALL. ANYBODY IN POSSESSION OF TELECOMMUNICATION EQUIPMENT WILL MAKE HERSELF/HIMSELF LIABLE FOR EXPULSION.
12. Any person who impersonates a candidate shall be disqualified from appearing in any University examination for a period of **five years** including this 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 this University for a period of **five years**. His/her case, if necessary, shall also be reported to the police for any further action in the matter. The candidate who is being impersonated shall also be disqualified for a period of **Five Years** from appearing in any examination of this University, apart from any other action which the University may take against him, as deemed fit.
13. 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)
14. 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)
15. The Centre Superintendent/Observer/any other authorized University Officer/Official shall be competent to expel a candidate from the Examination Centre under instruction Nos.13 & 14.

16. **No candidate be permitted to leave the examination hall/room before the expiry of the time allowed for the examination.**
17. 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.
18. **There will be no negative marking.**
19. **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.
20. 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.
21. 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.
22. 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 and as also enrolment to Ph.D., if granted, shall stand cancelled. He/ She shall have no claim, whatsoever, against the University. The case, if necessary, shall be reported to the police for any further necessary action in the matter.
23. 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.
24. Notwithstanding anything contained in this prospectus, the eligibility conditions for enrolment to Ph.D. shall be governed by the respective rules/regulations as enshrined in the P.U. Calendar, Volumes I, II and III (latest editions) and decisions of the University Senate /Syndicate. In case of any conflict or inconsistency between the prospectus on the one hand and the aforesaid Panjab University Rules and Regulations /Guidelines/ Hand-Book of Information / Decisions of Senate/Syndicate, on the other, the latter shall prevail.

25. **4-5 days after the test, the question paper and its key will be put on the University website. The candidates can file their objections regarding discrepancies and accuracy of the key, in writing, within 48 hours of this announcement. The valid concerns thus expressed will be given due consideration while evaluation. If a candidate wishes to verify his/her result, he/she will be provided a photocopy of his/her answer sheet on payment of Rs.10,000/- within 10 days after the declaration of the entrance test result and the office should process the whole procedure within three working days. In case, a discrepancy is found in the result of the candidate, the result would accordingly be revised and the fee deposited will be refunded.**
26. For urgent enquiries, Assistant Registrar (CET) may be contacted at 0172-2534829 only during the working hours.