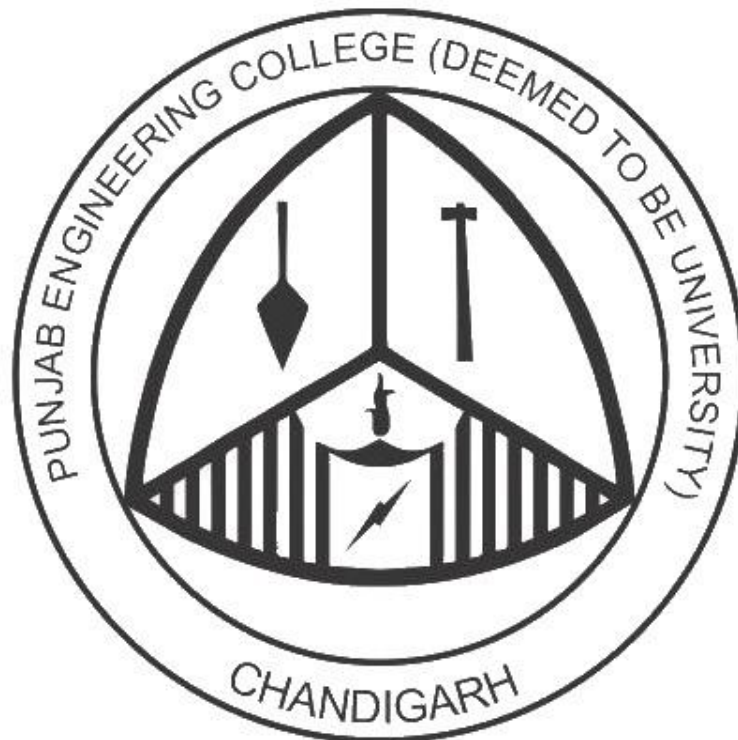




EXPLORE INNOVATE EXCEL

PUNJAB ENGINEERING COLLEGE
(DEEMED TO BE UNIVERSITY)
CHANDIGARH



Admission Brochure

2018-19

Registration Fee: Rs. 2000/- (Non-Refundable)
For Admission to Ph.D. Programmes

Punjab Engineering College (Deemed to be University), Chandigarh

Admission Notice

Admission to Ph.D. Programmes

Online Applications are invited for admission to Ph.D. Programmes in various disciplines as mentioned in **TABLE-1**. The important dates regarding admission related activities are mentioned in **TABLE-2**. Applications may be submitted through the link on institute website <http://pec.ac.in/admissions/phd>. Hard copy of the registration form along with self-attested photocopies of the relevant documents and a demand draft of Rs. 2000/- (non-refundable) in favor of “*Punjab Engineering College (Deemed to be University) – PG Admissions*” payable at **Chandigarh** is to be submitted to Controller of Admissions, Punjab Engineering College (Deemed to be University), Sector – 12, Chandigarh, Pin – 160012 by hand /registered post/ speed post on the prescribed date and time. The candidates applying for more than one department should submit separate print-outs of online registration form on website <http://pec.ac.in/admissions/phd> for each discipline. A sum of Rs.500/-(non refundable) is to be paid as registration fee for each additional discipline applied.

TABLE-1

Area of Specialization and Qualifying Degree for PhD Admission for the session 2018-19

S.No	Department	Area of Specialization	Qualifying Degree, eligible branches	With Institute Scholarships	Without Institute Scholarship	Total
1.	Aerospace Engineering	<ul style="list-style-type: none"> • Aerodynamics • Propulsion • Flight Mechanics 	B.E. / B.Tech. in <ul style="list-style-type: none"> • Aerospace Engineering • Aeronautical Engineering M.E. / M.Tech. in <ul style="list-style-type: none"> • Aerospace Engineering • Aeronautical Engineering • Mechanical Engineering 	00	05	05
2.	Applied Sciences	Physics	<ul style="list-style-type: none"> • M.Sc. Physics 	02	06	08

		<ul style="list-style-type: none"> • Magnetic Semiconductor • Multiferroics (Nanomaterials) • Pyroelectricity • Theoretical condensed matter Physics 	<ul style="list-style-type: none"> • M.Sc. Material Science • M.Tech. Material Science • M.Tech. Materials and Metallurgical Engg. • M.Tech. Nanotechnology • M.Tech Electronics • M.Tech Electronics & Communication Engg. 			
		<p>Mathematics Section</p> <ul style="list-style-type: none"> • Number Theory • Algebra • Coding Theory • Topology 	<ul style="list-style-type: none"> • M.Sc. in Mathematics 	02	17	19
		<p>Chemistry Section</p> <ul style="list-style-type: none"> • Synthetic Organic Chemistry(Natural Products and Heterocycles), Green Chemistry, Ionic Liquids, Nanocatalysis, Photocatalysis, Waste Water Treatment Metaloxide Nanomaterial • Organotin Chemistry, Environmental Chemistry, Nanomaterials • Analytical Chemistry • Fluoro Organic Chemistry, Organic Photocatalysis, Heterocyclic Chemistry 	<ul style="list-style-type: none"> • M.Sc. in Chemistry, • M.Sc. Applied/ Industrial Chemistry • M.Sc. Environmental Sciences • M.Tech. in Chemical Engineering • M.Sc. Material Science • M.Tech. in Environmental Engineering • M.Tech. in Material Science • M.Tech. in Material and Metallurgical Engineering • M. Pharma 	04	13	17
		<p>Geology Section</p> <ul style="list-style-type: none"> • Remote sensing and GIS applications to Geological studies. 	<ul style="list-style-type: none"> • M.Sc in Geology • M.Tech. in Geology 	00	05	05
3.	Civil Engineering	<ul style="list-style-type: none"> • Structural Engineering • Transportation Engineering • Water Resources Engineering • Environmental Engineering • Geotechnical Engineering • Construction Technology & Management • Remote Sensing and GIS 	<p>B.E. / B.Tech. / M.E. / M.Tech in</p> <ul style="list-style-type: none"> • Civil Engineering or any allied field 	08	62	70

4.	Computer Science & Engineering	<ul style="list-style-type: none"> • Information Security • Biometric Security • Network Security • Cyber Warfare • Cryptography • Security in Cloud Computing • Wireless Sensor Network • MANET • Vehicular Adhoc Network • Mobile Computing • Distributed Computing Systems • Mobile Sensing & Analytics • Cloud Computing • Internet of Things • Wireless Network • Other areas related to computer Networks • Intelligent Transportation System • Bioinformatics • Artificial Intelligence • Soft Computing • Block Chain • Big Data Analytics • Image Processing • Latent Fingerprint Processing • Information Retrieval • Recommender Systems • Software Clones • Software Testing • Machine Learning 	<p>B.E. / B.Tech. / M.E. / M.Tech in</p> <ul style="list-style-type: none"> • Computer Science & Engineering • Information Technology • Software Engineering • Information Security • Electronics & Communication Engineering • Embedded System • CSE(Computer networks) • Information Systems • Electrical & Communication Engineering • Cyber Forensics • Computer Science & Information Security • Cyber Forensics & Security <p>Or equivalent</p>	06	27	33
5.	Electrical Engineering	<ul style="list-style-type: none"> • Power System App. of power electronics, • App. of Neural fuzzy optimization technique in power system • Smart Grid Renewable Energy • Power Electronics Applications in Power System • Power Electronics & Control Engg. • Power System Stability • Power System Transmission Planning Restructured 	<p>B.E. / B.Tech. / M.E. / M.Tech in</p> <ul style="list-style-type: none"> • Electrical Engineering • Power Systems • Electrical & Electronic Engineering • Power Electronics & Drives • Control & Instrumentation 	04	46	50

		<ul style="list-style-type: none"> • Power Systems • Control Systems • Power & Energy Systems • Mechatronics • Renewables with Smart Grid 				
6.	Electronics & Comm Engineering	<ul style="list-style-type: none"> • Optical communication & Photonics • Communication Engineering • Nano Technology • Cognitive Radio • VLSI Design • Electronics Waste Management • Wireless Communication • Electronics system design • Assistive technology • Digital communication • Computer aided diagnostics • Digital signal processing • Embedded system • Image processing • Microwave / Terahertz (THz) Antennas and devices • Renewable energy • Silicon Nano Photonics • On-chip optical devices • Photonics Integrated circuits • Optical networks – on –chip • Optical Communication • Photonics 	<p>B.E. / B.Tech. / M.E. / M.Tech in</p> <ul style="list-style-type: none"> • Electronics Engineering • Electronics & Communication Engineering • Electronics and Telecomm Engineering • Electronics and Instrumentation Engineering • Electronics (VLSI) • Electronics Product Design & Technology • Embedded System • Microelectronics • Power electronics • Microwave Engineering • Computer Aided Design • Biomedical Engineering <p>Or any other equivalent</p>	02	28	30
7.	Mechanical Engineering	<p>Mechanical Vibrations & Its control, Thermal Engineering, Quality Engineering, Supply Chain Management, Ergonomics Design Environmentally conscious Manufacturing, Solar Energy, Advanced Manufacturing processes and Metallurgy, Processing and Manufacturing of Biomedical Materials, Advanced Welding Processes, Micromachining</p>	<p>B.E. / B.Tech. / M.E. / M.Tech in</p> <ul style="list-style-type: none"> • Mechanical Engineering • Aeronautical Engineering • Production Engineering • Production & Industrial Engineering • Aerospace Engineering • Materials & Metallurgical Engineering 	06	07	13
8.	Materials & Mett. Engineering	<ul style="list-style-type: none"> • Biomaterials for Bone Substitute and Body Implant • Materials for Joining 	<p>B.E. / B.Tech. / M.E. / M.Tech in</p> <ul style="list-style-type: none"> • Mechanical Engineering 	01	03	04

		processes • Blast Mitigation • Composite Material • Thin film • Transparent ceramic	• Production Engineering • Metallurgy/ Materials and relevant fields			
9.	Production and Industrial Engineering	• Machining & Adv. Mfg. • CAD/CAM/Casting welding • Non Conventional Machining • Quality • DOE • ECDM • Composite Materials	B.E. / B.Tech. / M.E. / M.Tech in • Production and Industrial Engineering • Mechanical Engineering • Industrial Design • Metallurgy • TQEM/ TQM • Production Engineering • Industrial Engineering	03	10	13
10.	Industrial Product & Design	• Ergonomics, Advanced CAD • Design Application in Medical Sciences	B.E. / B.Tech. / M.E. / M.Tech in • Mechanical Engineering • Industrial Design • Production Engineering • Production & Industrial Engineering • Electronics & Communication Engineering • Electronics Engineering Or any other equivalent	01	10	11
11.	Centre of Management and Humanities	• English / Linguistics	MA English MA Linguistics or equivalent	01	04	05
		• Management Commerce	M.Com/MBA or equivalent	01	02	03

Note:

1. Only GATE qualified candidates are eligible for admission to Ph.D. programme in Mechanical, Computer Science & Engineering and Materials & Metall. Engg. departments.
2. Entrance test will be conducted for non-GATE candidates by the respective departments followed by interview. For GATE candidates, only interview will be conducted.
3. The schedule of written test and interview will be notified separately on the institute website.
4. The candidates are advised to visit the institute website regularly.

TABLE-2: Important Dates**Admission Schedule for Ph.D Admissions 2018-19**

Online Registration	18.05.2018 to 01.06.2018
Last date for depositing hard copy of Registration Form along with Demand Draft and supporting documents	08.06.2018 till 05:00 PM
Dispatch of Registration Form to various Departments	12.06.2018
Publishing of final list of eligible candidates by respective Departments (GATE/ Non-GATE)	15.06.2018
Test and interview in respective departments (details will be uploaded on website)	26.06.2018 and 27.06.2018
Result intimation with waiting list	29.06.2018
Payment of fees (Fee should be in the form of DD in favour of " <i>Director , PEC University of Technology</i> " payable at Chandigarh)	02.07.2018 to 05.07.2018
Reporting of PhD students for the session 2018-19 in the respective departments and selection of tentative topics, guide/ supervisors	23.07.2018
Academic Registration	30.07.2018

Punjab Engineering College (Deemed to be University), Chandigarh

I. OBJECTIVE OF THE PhD PROGRAMME

The Punjab Engineering College (Deemed to be University) has a mission to develop high quality science and engineering specialists having strong base in principles of science and the scientific methods, deep understanding of their chosen areas of specialization, the motivation to learn continually, interact with multi-disciplinary groups and to handle new challenges offered by the front-end technologies.

The PhD programme is designed to impart knowledge, consolidate concepts and intellectual skills through courses, seminars, projects, and thesis work. Above all, it helps the scholars to develop the capacity for free and objective enquiry, courage and integrity, awareness and sensitivity to the needs and aspirations of the society.

The programme provides the candidates an enabling research experience during their presence in the institute thus helping them to enter their professional life with right perspective and knowledge related to their respective fields of specialization.

II. Areas of Research

The Ph.D. Programme can be pursued in the disciplines of

1. Applied Sciences
2. Civil Engineering
3. Electrical Engineering
4. Mechanical Engineering
5. Production & Industrial Engineering
6. Computer Science & Engineering
7. Aerospace Engineering
8. Materials & Metallurgical Engineering
9. Electronics and Communication Engineering
10. Industrial and Product Design.
11. Management & Humanities

The institute encourages inter-disciplinary research across various departments.

III. Admission to Ph.D. Programme

Admission to the PhD programmes is made on the basis of interview or written test (GATE/NET syllabus) or both as determined by PhD Admission Committee of the Department provided the candidate fulfils all the requirements at the Institute level and the selected candidate deposits the requisite fees for the PhD Programme. The applications received will be processed in the various departments for written test/interview.

Internal faculty/staff members who are GATE/NET qualified, will be eligible for admission through interview only, while Non GATE/non NET candidates will be admitted through interview and written test.

The admission to Ph.D. programme will take place once a year. However, students having National/ State/ Industry/ R&D sponsored scholarship such as UGC NET/ CSIR NET/ DSP inspire/ Vishvesveraya etc. & related scholarships or are sponsored foreign nationals can be given admission throughout the year based upon an interview to be conducted by Departmental Research Committee (DRC) & prospective supervisors.

The Ph.D admission committee of the department will consist of Head of the department, members of DRC and potential supervisors in various areas.

IV. Categories of Ph.D. Programme Admissions

The applicant for admission to the Ph.D. programme shall be classified under any one of the following categories which will be decided and recommended by the Ph.D admission committee of the department.

- (i) Full-time Research Student/Candidate (with/without Scholarship and sponsored)**
 - a)** Research student with valid GATE/NET score or admitted to M.E. with GATE and getting Institute assistantship.
 - b)** Research student including foreign nationals getting financial support from Govt. / Semi Govt. agencies (QIP, CSIR, UGC, DAE, DST, DBT,

NBHM, JEST, ICCR, NDF, DRDO, etc.)

- c) Research student on study leave: This category refers to persons who are released from government or educational institutions on study leave for a period of not less than three years for pursuing Ph.D. programme. They will be admitted along with the regular research students through the usual admission procedure.
 - d) Self-Financed Research student/Candidate
 - Indian:** This category refers to persons with experience and with good track record to join the doctoral programme. They will be admitted along with the regular research students through the usual admission procedure.
 - Foreign:** Admission of Foreign nationals to Ph.D. programme will be made as per policy and direction of the Govt. of India from time to time.
 - e) Research student working full time (JRF/SRF/RA) in a sponsored R & D project at PEC provided his Ph.D. topic is related to the project as certified by the SRC six months after joining the project. To be accepted as a Ph.D. student, a research student working in a project will have to undergo the same admission procedure as applicable in general. These students would also be eligible for institute assistantship on lines of students admitted under (a) above.
 - f) Research fellows from reputed and established laboratories of Govt. of India/ State Govt./ accredited labs of QCI, academic and research institutions with which the institute has entered into MoU with focus on collaboration in academic and research and CRIKC institutions may be considered for registration in full time Ph.D programme of PEC as is allowed for research students working full time at PEC.
- (ii) **Part-time Research Student/ Candidate (sponsored)**
- a) Research student/Candidate working as a regular employee in the institute.

- b) Research student/Candidate working as a regular employee in research organization like DRDO/ CSIR etc and scientist/faculty working in the CRIKC institutes will be eligible for admission to PhD Programme as a Part-Time Scholar provided he/she is in continuous service for the last 2 years in the same organization and can provide a No objection certificate from the employer. The DRC has to ensure the fulfillment of these conditions at the time of interview.
- c) Research student / candidate working regularly full-time in an R&D project in the institute can join as a full time/part time student if his Ph.D. topic is related/not related to the project as certified by the SRC six months after joining the project However, part time research student/candidate may be given full time status when the project tenure is completed. To be accepted as a Ph.D. student, a research student working in a project will have to undergo the same admission procedure as applicable in general.

V. Eligibility Criteria for Admission to Ph.D. Programme

1. Eligibility for Full-time Research Student/Candidate

An applicant belonging to the above admission categories should possess the following qualifications in appropriate areas to be eligible to apply for admission for the Ph.D. programme of the Institute.

a) Engineering Technology streams:

Master's degree in Engineering/ Technology of 2 years duration after graduation in respective discipline or equivalent with a minimum Cumulative Grade Point Average (CGPA) of 6.00 on a 10 point scale or equivalent as determined by the Institute wherever letter grades are awarded; or 60% marks in aggregate (of all the years/semesters) where marks are awarded.

Details of direct admission of B.E/B.Tech. candidates to Ph.D programme are given at point 3 (Direct Admission of B.E./B.Tech. candidates to Ph.D programme).

b) Science Streams:

Master's degree in Sciences in respective discipline or equivalent and minimum Cumulative Grade Point Average (CGPA) of 6.00 on a 10 point scale or equivalent as determined by the institute where letter grades are awarded; or 60% marks where marks are awarded.

The admission eligibility requirements may be relaxed to 5.5 on a 10 point scale or equivalent, or to 55% marks for admission in all categories of scholars for the following categories:

- i) SC/ST candidates
- ii) PwD (Persons with disability)

c) Management, Humanities & Social Science Streams

Ph.D. in Management: The candidate applying must possess an M.Com/ MBA or equivalent and should have obtained minimum Cumulative Grade Point Average (CGPA) of 5.5 on a 10 scale or equivalent as determined by the institute where letter grades are awarded; or 55% marks where marks are awarded.

Ph.D. in English: The candidate applying must possess an M.A. or an equivalent qualification in English and should have obtained 55% or above in M.A. English / Linguistics from a reputed institute.

Candidates with valid NET score shall be given preference. The admission eligibility may be relaxed to 5.0 on a 10 scale or equivalent, or to 50% marks for admission for SC/ST/PwD candidates.

2. Eligibility for Part-time PhD

- a) The eligibility criteria shall be the same as that for full time students. Additionally, the part time candidates need to fulfill the following conditions and provide the information along with the application:
 - i.) The applicants must have been in continuous service with the sponsoring organization for at least two years at the time of submitting the application form for admission and submit 'No Objection Certificate' from the employer stating that

- a) He/she is on the regular payroll of the organization,
 - b) He/she is permitted to pursue studies on a part-time basis
 - c) His/her official duties will permit sufficient time for research. Sponsorship letter (on letterhead of the sponsoring organization) should include an undertaking stating that the period of study of the candidates will be treated as 'on duty' with usual salary/allowances, and he/she will be relieved for the period of studies.
- ii.) He / She will be required to reside at the Institute for a period of not less than one semester i.e. six months duration which is mandatory in the first year of PhD Programme. (This condition of minimum residence period will be automatically waived for candidates who are working in PEC or in organizations / institutions located within a distance of 50 km from the Institute).

Note: Prevailing guidelines on course work for Ph.D part-time programme and options for Senior Executives working at the level of CEOs and Directors in industries, Government and research organizations are available in Ph.D Rules and Regulations of the institute.

3. Direct Admission of B.E./B.Tech. candidates to Ph.D programme

- a) To be eligible for the admission under this category, a candidate is required to have minimum CGPA of at least:
 - i. 8.0 or above with GATE or 8.5 or above without GATE for students graduated from PEC and CFT institutions at the end of the seventh semester (if applying during final year) under General category.
 - ii. 8.0 or above with GATE or 8.5 or above without GATE for students graduated from PEC and CFT institutions at the end of the eighth semester (if applying after the completion of B.E./ B.Tech) under General category.
 - iii. For SC/ST category students, the minimum CGPA requirement will be reduced by 0.5.
- b) Successful candidates in final year of undergraduate programme may be given provisional admission to the Ph.D programme. This admission shall be confirmed

provided the student completes his/her undergraduate programme with required graduation CGPA.

- c) Candidates getting direct entry to Ph.D programme after BE/ B.Tech will need to fulfill credit requirements through course work on pattern of courses offered to PG students and additional course requirements as per UGC

VI. Scholarship:-

Institute scholarships are available for GATE Qualified students in some departments as shown in **TABLE-1**.

VII. Submission of Application form

Application for admission must be filled online (procedure for online registration mentioned in point VIII) and two printed copy of the filled registration form along with following documents must be sent to Controller of Admissions, Punjab Engineering College (Deemed to be University), Sector – 12, Chandigarh – 160012 on or before the closing date as mentioned in Table-2:

- I. Date of Birth Certificate
- II. SC/ST Certificate (if applicable)
- III. Sponsorship/NOC Certificate (wherever applicable)
- IV. GATE Score Card (if applicable)
- V. Copies of Bachelor's & Master's Degrees along with marks sheets
- VI. NET Certificate if applicable
- VII. Migration Certificate [For candidates not having their Master's degree from Punjab Engineering College (Deemed to be University)]
- VIII. Persons with Disabilities certificate (if applicable)
- IX. Demand Draft in original.
- X. Undertaking if applicable

NOTE:

- 1. Reservation of seats for SC/ST/PwD candidates shall be provided as per Govt. norms applicable from time to time.
- 2. Full-time candidates with scholarship coming on study leave must show proof of at least 3 years study leave before being allowed to register after the selection.

3. In case an eligible degree does not bear the awards in percentage, the following Conversion Formula will be used to convert CGPA into percentage of marks for the purpose of admission at PEC: Percentage of Marks = CGPA x 10, on 10-Point Scale.
4. The minimum prescribed percentage will be based on the marks obtained in aggregate of all the years/ semesters of the qualifying examinations as per the weightage followed by the concerned University.
5. The attendance of full-time PhD candidates will be governed by the attendance requirements of the Institute.
6. Part-time PhD candidates will be required to meet the supervisor at least once every fortnight throughout the semester. Attendance record should be maintained with the supervisor and office of the Department.
7. All Non-GATE/Non-NET qualified candidates have to qualify a PhD entrance exam of the Institute. However, M.E. students who were admitted to M.E. on basis of GATE score are exempt from the PhD entrance exam of the Institute.
8. For admission to PhD Programmes in Science/Humanities/Management, if the candidate does not have a NET Fellowship (UGC/ CSIR) valid for the current year in relevant areas, the candidates has to qualify the PhD Entrance Test of the institute.
9. Only the predetermined number of students may be admitted to a PhD programme.
10. As per the provisions 1(5) of the UGC Regulations 2009, PhD program will not be conducted through distance education mode.

VIII. Procedure for online Registration

Online Submission of application for Registration on <http://pec.ac.in/admissions/phd>.

Please read the general instructions carefully before starting the registration process. The candidates are required to pay Rs.2000/- (non-refundable) in the form of Demand Draft/Bankers Cheque in favor of “*Punjab Engineering College (Deemed to be University) – PG Admissions*” payable at **Chandigarh** and sum of Rs.500/- (non refundable) is to be paid as registration fee for each additional discipline applied. The details of Demand Draft/Bankers Cheque are to be filled during online registration.

The process of online registration consists of three steps. The candidates seeking admission are required to fill online Registration Form.

1. **Step 1:**

- 1.1 Enter a valid email address and other personal details.
- 1.2 On submission a system generated username & password will be displayed on the screen. Note down this username and password for future reference.

2. **Step 2:**

- 2.1. Enter the academic qualifications.
- 2.2. The candidate then has to upload the scanned images of Photograph and Signature.
- 2.3. All Scanned images should be jpg/jpeg format only.
- 2.4. Size of the photograph image must be greater than 4kb and less than 200kb. The photograph should preferably have the frontal face with a light background.
- 2.5. Size of the signature image must be greater than 4kb and less than 100 kb.
- 2.6. Dimension of photograph image should be 200x150(height x width) pixels only.
- 2.7. Dimension of signature image should be 100 x 200 (height x width) pixels only.
- 2.8. The details of the Demand Draft/Bankers Cheque are to be filled in the Registration Form.
- 2.9. The candidates have to select their choices of area of specialization in order of their preference.
- 2.10. In case of a GATE qualified candidate, mention GATE details.
- 2.11. Mention number of papers published and awards and scholarship, if any.
- 2.12. Mention any other relevant information.
- 2.13. After successful completion the registration form and choice filling, a confirmation page will be generated.

3. **Step 3:**

- 3.1 The candidates are advised to take 2 printouts of the confirmation page and send one copy of print-out along with documents and Demand Draft/Bankers Cheque (in original) to following address by hand/speed post/registered post so as to reach by the prescribed date.

Controller of Admissions,
Punjab Engineering College
(Deemed to be University)
Sector-12, Chandigarh
Pin – 160012

- 3.2 The institute will not be responsible for any delay in the receipt of hard copy of the Registration Form.

- 3.3 The candidates are advised to keep one copy of the confirmation page with them for future reference.

IX. GENERAL INSTRUCTIONS

1. Separate Registration form should be used for each department if applying for more than one department.
2. Self attested copies of relevant certificates are to be enclosed.
3. Candidates should bring original certificates along with the Master's Thesis at the time of interview.
4. Duly filled Registration form must reach the Controller of Admissions, Punjab Engineering College (Deemed to be University), Sector – 12, Chandigarh - 160012 before the due date.
5. Name of the department in which the admission is sought should be super-scribed on the envelope.

X. DOCUMENTS TO BE PRODUCED DURING PHYSICAL REPORTING ALONG WITH TWO PHOTOCOPIES SETS:

- i. Printout of the Registration form
- ii. Self attested copy of GATE score card
- iii. Photo ID proof as per Govt. of India norms (Aadhaar Card)
- iv. Original Birth certificate issued by competent authority/Class X (High School) Board Certificate as proof of date of birth
- v. Original Mark sheet
- vi. Original Grade/Mark sheets of qualifying examination for all semesters (if applicable)
- vii. Original Degree/ Provisional certificate, if degree is completed
- viii. Original Certificate of category (SC/ST), if applicable, as per Government of India, issued by the competent authority.
- ix. Original Demand Draft of fee payment
- x. Original Migration certificate of last Institute/ University attended
- xi. Three colour passport size photographs
- xii. Original Conduct Certificate from the Head of the institution last attended
- xiii. Original Transfer certificate from the Head of the institution last attended

- xiv. Original Course completion certificate from the Head of the University/Institute in case result is awaited
- xv. One set of self-attested photocopy of all the original documents
- xvi. Persons with Disabilities certificate (if applicable)
- xvii. Undertaking if applicable
- xviii. Sponsorship/NOC Certificate (wherever applicable)

Note: If the original certificates are not in English/Hindi, English/Hindi version/translation of such certificates, duly certified by the Principal/Director of the graduating Institute, will be required during the verification of documents. The certificates listed if not available at the time of reporting, then they have to produce the same at the time of admission.

UNDERTAKING FOR CANDIDATES WHOSE RESULT IS NOT DECLARED

I hereby certify in connection with the application of Mr./Ms. _____ that he/she is a bonafide student of our institution and is applying for admission to Ph.D. programme(s) at Punjab Engineering College (Deemed to be University), Chandigarh. He/She has completed the requirements of qualifying examination including theory papers, practical and project/dissertation examination for M.E/M.Tech./M.Sc./M.A.

_____ (Strike out the non-applicable ones and write in the blank space if the degree is not mentioned). The percentage of aggregate marks/CGPA obtained by him/her upto pre-final Semester/year examination (Strike out the non-applicable) is _____ His/her conduct and character during his/her stay at the Institute/University is "GOOD".

Place: _____

Date: _____

Signature of Principal/Dean/Registrar/
Dy.Registrar/Proctor/Administrative Officer
of the institute attending/last attended with
seal

FEE STRUCTURE FOR Ph.D. STUDENTS

ONE-TIME (At the time of Admission only)

Admission Fee	:	Rs. 3000/-
Student services	:	Rs. 5000/-

RECURRING (Annual)

Tuition Fees	:	Rs. 5000/-
Other facilities and services	:	Rs. 10000/-

SECURITY (Refundable)	:	Rs. 5000/-
------------------------------	---	------------

The other facilities and services fee will not be payable by students who are pursuing the programme on a part-time basis.

Every component of fees is subject to revision by Punjab Engineering College (Deemed to be University), Chandigarh from time to time.