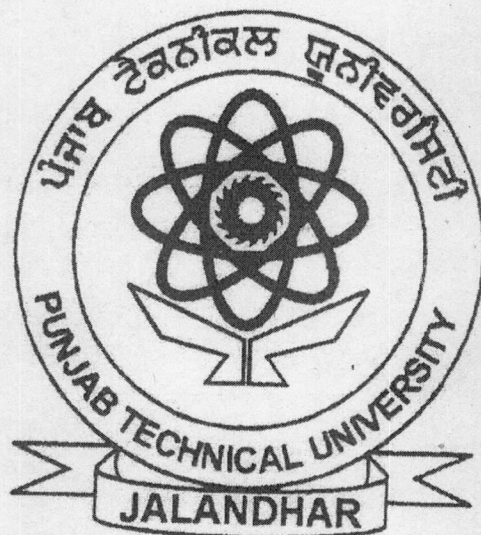


# **PUNJAB TECHNICAL UNIVERSITY JALANDHAR**



## **ORDINANCES & REGULATIONS FOR THE DEGREE OF DOCTOR OF PHILOSOPHY**

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### **1. ELIGIBILITY**

A candidate seeking admission to a Ph.D. programme of the Punjab Technical University, Jalandhar, should possess one of the following qualifications :

- 1.1 A Masters Degree in a allied discipline of Engineering / Technology or Sciences from a recongnized University with a minimum of 60% marks where marks are awarded or with a minimum cummulative grade point average (CGPA) of 6.75 on a 10 point scale or equivalent as determined by University wherever letter grades are awarded.
- 1.2 An internal candidate shall be defined as a full time member of the faculty or a research fellow of any Department of Punjab Technical University, Jalandhar, or any Department of College or an Institute affiliated to Punjab Technical University, Jalandhar.
- 1.3 An external candidate shall be defined as an employee of a public sector undertaking, a Govt. department, a research/development or a private industry or an educational institution not affiliated to but recognised by Punjab Technical University, Jalandhar, as centres of research. Such candidates shall produce a certificate from the Head of Organisation that he/she would be allowed to spend a minimum of 12 months residency at the place of his registration (Any Institute affiliated with Punjab Technical University, Jalandhar).



## 2. REGISTRATION

2.1 A candidate wishing to enroll for the Ph.D. degree shall fill up the prescribed application form and submit the same along with a fee to the Head of the Institution for onward submission to Registrar, Punjab Technical University, Jalandhar. The candidate shall also submit along with his application (or within 6 months), the synopsis of his research proposal on a prescribed performa indicating :-

1. Area of Research
2. The title of Research proposal
3. Objectives
4. Technical Programme
5. Work done on the topic/related aspects in India and abroad.
6. References

The candidate will be provisionally registered on the date of the receipt of his application in the University.

2.2 "The application and synopsis shall be scrutinized by a research degree committee (RDC) which shall be constituted by the university for the relevant disciplines of Engineering/Technology Science and Management and Computer application subjects separately.

The RDC shall consist of :

1. Concerned Director of the University (Chairman)
2. Normally two Professors from P.T.U. / affiliated colleges from the discipline of proposed research topic to be nominated by the Vice-Chancellor.
3. An outside expert in the field to be nominated by the Vice-Chancellor.
4. Supervisor of the candidate.

The above committee will scrutinize the application and synopsis

of the candidate in regard to suitability of the research topic & capability of the student to carry out the research. The candidate will present the proposed work under synopsis before the RDC. On the recommendation of the RDC the Vice-Chancellor will allow the applicant to register for the Ph.D. degree or postpone it for a period of 6 months. In the later case from the date of his/her application.

The candidate may have to resubmit his synopsis in the light of modifications as suggested by RDC.

Continuation of the registration of a student in the Ph.D. programme will depend on his/her satisfactory progress and conduct. The University reserves the right to cancel the registration of any candidate in the event of his conduct and progress being found otherwise.

2.3 Candidate will renew his registration every year on application (through his advisor and Head of Institute / Colleges) to the Registrar along with the prescribed fee.

## 3. SUPERVISOR(S)

3.1 The research work of each scholar will be normally supervised by one or two approved research guides who agree to guide the student on the topic specified in the synopsis.

A teacher shall be approved by RDC as a research guide on his application on a prescribed performa.

Normally one of the supervisors will be from the department of the University or an affiliated college of the University where the candidate proposes to pursue his research work. The research guides will be appointed by the RDC, keeping in mind the candidate's choice.

3.2 In the case of more than 2 supervisors, the teacher belonging to the department where the candidate is registered will be the guide & other supervisors will be co-guide.

3.3 To guide Ph.D. research, a supervisor is expected to have a Ph.D. degree himself. Without a doctorate degree in the subject,



the supervisor should have conducted independent research. This relaxation will be given by the Vice-Chancellor on recommendation of the RDC.

- 3.4 A faculty member at the level of Professor can supervise 4 Ph.D. students, Assistant Professor 3 and a Lecturer 2 at a time.
- 3.5 Ordinarily, no change of supervisor shall be allowed. But in special cases where the RDC is satisfied that the research work of the candidate will suffer on account of migration of the supervisor to another institution or on account of the retirement of the latter when he is unwilling to continue to guide the candidate or in any other circumstance necessitating such change the RDC will recommend a change of supervisor to the Vice-Chancellor who may allow a change of the supervisor on such recommendations.

Provided that the RDC in its discretion may decide whether change of supervisor will require fresh registration of candidate or not.

#### 4. SUBMISSION OF THESIS

- 4.1 The residential requirement of Punjab Technical University, Jalandhar or the Department and Institutes affiliated with Punjab Technical University, Jalandhar for Ph.D. is a minimum of one year. This period can be altered on the recommendations of the guide and will be subject to the approval by the Vice Chancellor.
- 4.2 A candidate shall be allowed to submit his thesis after a period of two years from the date of registration.
- 4.3 Maximum period allowed for full-time Ph.D. student for thesis submission shall be 4 years from the date of registration while for part-time student this period shall be 5 years. The Vice-Chancellor may on the recommendation of RDC may extend the maximum period by one more year.
- 4.4 Application for extension of the period for submission of thesis may be considered by the RDC on the recommendation of

the Supervisor who shall indicate the period for such extension, keeping in view the progress already made by the candidate in his work.

- 4.5 A temporary discontinuance may be permitted on account of illness and this period will not be counted towards residential and other requirements for the submission of the thesis.
- 4.6 A candidate may be permitted to modify the title of his thesis with the permission of the Vice Chancellor on the recommendation of the supervisor, Head of the Department and the Dean of the faculty concerned not later than six months before the submission of thesis.
- 4.7 At least two months prior to final submission the candidate shall present his research findings alongwith recent work in that area before a committee approved by the Vice-Chancellor. The permission to submit the thesis shall be given by the Vice-Chancellor on recommendations of this committee.

#### 5. EXAMINATION

- 5.1 After the submission of the thesis by the candidate, the supervisor will submit a list of six experts (out of which three will be from abroad) working precisely in the field of research of the candidate. The Vice Chancellor shall approve two experts submitted through RDC out of which one will be from abroad.
- 5.2 After the thesis is completed as certified by the student and his supervisor(s), the candidate shall submit the University three copies of the thesis. The thesis will include a certificate in prescribed format duly signed by the candidate and his supervisor(s), that the work submitted in the thesis is the original contribution by the student and that it has not been submitted earlier for any degree. The copies of thesis would be submitted to the external examiners, who would be required to submit independent reports within three months. The report would specify, if the work incorporated in the thesis is of sufficient merit for the award of Doctoral degree, in that case they will recommend the award of degree of Doctor of



Philosophy. The reports of the examiners will put before the RDC. If the Committee is satisfied that the reports of the examiners are unanimous and definite, it may recommend that the Viva-Voce examination of the candidate be arranged. The candidate will then be required to undergo a Viva-Voce test to be conducted by two examiners one shall ordinarily be the supervisor while the other one will be one of the external examiners. The viva-voce test will be open to all interested in the subject, where the candidate shall be required to present the main findings of his thesis and defend the same. The candidate shall be asked to answer all such questions which the external examiners might have raised in their reports.

5.3 After satisfactory viva-voce the Committee may recommend that the result of the candidate be declared. In case the report show a divergence of opinion between the examiners, the committee will be requested to submit a joint report, if possible. If there be divergence of opinion even after the exchange of reports, a fourth examiner shall be appointed from the panel of examiners already approved, whose decision shall be final.

5.4 Provided that if two examiners recommend the revision of the thesis either originally or after exchange of reports, the thesis shall be revised and resubmitted. The revised thesis will be sent to the same external examiners for evaluation. In case two examiners reject a thesis, originally or after the exchange of reports, the thesis will be rejected. The report of the Viva-Voce examinations shall be placed before the RDC which may recommend the declaration of the result.

A printed or type written copy of each accepted thesis shall be placed in the University Library where it will be open to reference / inspection. A summary of not more than 1,000 words shall also be furnished by the candidate, to be published as the University may deem fit.

The registration fee for the Ph.D. degree shall be Rs. <sup>10,000/-</sup>~~2000/-~~ renewable every year on the payment of the same fee.





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**PUNJAB TECHNICAL UNIVERSITY**

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Price : Rs. 50/-