

ORDINANCES & REGULATIONS FOR THE DEGREE OF DOCTOR OF PHILOSOPHY

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 an allied discipline of Engineering/ Technology or Sciences from a recognized University with a minimum of 60% marks where marks are awarded or with a minimum commulative grade point average (CGPA) of 6.75 on a 10 point scale or equivalent as determined by University wherever letter grades are awarded.

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 proforma indicating :-

1. Area of Research
2. The title of Research proposal
3. Objectives
4. Technical Programme
5. Workdone 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 latter case six months shall be counted from the date of his/ her application.

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

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

- 2.3 Candidate will renew his / her registration every year on application (through his / her 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 proforma.

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 / her 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 two 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 / herself. 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 / she 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 at 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 / her 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 R.D.C., 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 / her 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 along with the 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 6 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 / her supervisor(s), the candidate shall submit to 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 be 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 examination to be conducted by two examiners, out of which 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 / her 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 reports show a divergence of opinion between the examiners, the committee may direct that the reports be exchanged between them, and the examiners 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 provided, 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.

Amendment 1 (Approved in 9th Academic Council meeting)

9.15	<i>Ph.D. Registration to be done faculty wise</i>	<p><i>Following procedures were approved for Ph.D. registration</i></p> <p>(a) <i>Registration for Ph.D. degree should be based on faculty i.e. Engineering / Science / Humanities & Social Science / Management.</i></p> <p>(b) <i>Regulations of Ph.D. may be printed as per minutes of the 5th meeting of Academic Council</i></p>
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Amendment 2 (Approved in 9th Academic Council meeting)

9.17	<i>Ph.D. Regulations</i>	<i>The following amendments in Ph.D. rules was approved :</i>
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11.3	Minutes of the first meeting of the Standing Committee	<p>The Academic Council considered the minutes of the first meeting of the Standing Committee item – wise and decided as under :</p> <p>No. S1.1 Simplification of procedure for registration to M. Tech. / Ph.D. courses</p> <p>The Academic Council noted the observations of the Vice-Chancellor.</p> <p>The Academic council ratified the decision taken by the Standing Committee subject to the following modifications :</p>
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	amendment	“The three experts irrespective of internal or external may please be chosen from anywhere within Indian Universities / Institutes for registration purpose.”
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Amendment 3 (Approved in 9th Academic Council meeting)

9.24	Amendment for Ph.D. rules for honorarium	<p>Following amendment in Ph.D. rules for payment of honorarium has been approved “</p> <p>“An honorarium of Rs. 500/- for RDC and Rs. 1000/- for final presentation of thesis for Ph.D. cases will be paid.</p>
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Amendment 4 (Approved in 10th Academic Council meeting)

10.16	Remuneration for Ph.D. experts	The Academic Council decided to approve \$50.0 for foreign experts and further decided that remuneration may be paid to all the experts whether they attend the RDC meeting or not.
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		<p>(a) The thesis title may be got approved from the Ph.D. Committee within six months instead of one year.</p> <p>S1.8 To consider procedure for refund / transfer of counselling fee / tuition fee etc.</p> <p>The Academic Council ratified the decision of the Standing Committee subject to the modification that the interest of 15% shall be chargeable after the lapse of one month, of the non – payment.</p>
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Amendment 5 (Approved in 11th Academic Council meeting)

Amendment 6 (Approved in 11th Academic Council meeting)

11.8	Minutes of the 2 nd meeting of the Standing committee	<p>Minutes of the 2nd meeting of the Standing committee held on 16.04.2003 were considered item wise and following decisions were taken :</p> <p>Item No. 2.1 To confirm the minutes of the emergent meeting held on 14.3.03</p> <p>The Academic Council noted the decision of the Standing Committee</p> <p>Item No. 2.3 To consider the problem of registration of Ph.D. candidates in the subjects where internal guides are not available.</p> <p>The Academic Council considered the matter and modified the decision of the Standing Committee as under :</p> <p>It was decided that in those subjects in which internal guide from the colleges affiliated to PTU are not available, the candidate may have guide from other University or an institution or industry. Such guides have to be from the list recognized by the PTU or organized by PTU after referral and consideration.</p>
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Amendment 7 (Approved in 16th Academic Council meeting)

16.4	To consider recommendations of the Ph.D. Committee and to recommend to the BOG regulations for award of Ph.D.	<p>The minutes of Ph.D. Committee were presented to the Council and were deliberated upon. The following decisions were taken :</p> <p>a. The registration fee of Rs. 10,000/- was approved.</p> <p>b. Annual fee of Rs. 5000/- was to be charged per year from each student.</p> <p>c. Synopsis – There would be no change</p> <p>d. Thesis & submission and the exam fee of Rs. 15000/- was approved.</p> <p>The Council did not accept the recommendations of Ph.D. Committee as far as publication of 2 research papers in referred journals was concerned. This was not considered to be practical for the students of management. Further it was argued that it was not easy</p>
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		<p><i>to identify referred journals and check on that. Hence, the point of 2 publications to be published before thesis could be evaluation was not justifiable in the case of Ph.D. in management studies. The Council also identified that the committee has not recommended any conditions on professional association of the students. The recommendations of the committee were referred back to the committee with the above observations. However, while doing so, the following decisions were taken</i></p> <p><i>i. The new fee as recommended by the committee was accepted and was to be charged from registration with effect from 1st June, 2004 onwards.</i></p> <p><i>ii. The annual fee collected is to got to the college / laboratory where the student is conducting the research work.</i></p> <p><i>iii. Since the committee had recommended that residence requirement was not to be imposed. It was essential that a certificate be furnished by the head of the Institute / organization to the effect that the laboratory infrastructure exist with the establishment which is sufficient and relevant to the research work being undertaken. The Council also took the decision that the Ph.D. committee must carry out the detailed review including eligibility condition for Ph.D in engineering, management and pharmacy and submit its report within 15 days time.</i></p>
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PUNJAB TECHNICAL UNIVERSITY, JALANDHAR

Application form for approval as a Supervisor for Doctoral Research (Ph.D. Degree) (only type)

1. Name
2. Address
3. Discipline
4. Specialization.....

Degree	Year	Subject	University
M.E./ M. Tech./M.Sc./ or equivalent			

5. Major Publications :

- (a) Total number
- (b) Details of particulars (Please attach a separate list, with following information)

S. No.	Authors	Title	Year	Journal, Volume and No.

6. Teaching Experience :

	Year	Subject	Department
Undergraduate			
Post-graduate			

.....
Signature

Date :

To be forwarded by the Head of the Institute/ College

Signature of the Head of the Institute/ College

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For office use

Recommended as the Research guide of Punjab Technical University to guide doctoral research (Ph.D.) in the area of

RDC

- Chairman
- Member
- Member
- Member
- Member

Vice - Chancellor

PUNJAB TECHNICAL UNIVERSITY, JALANDHAR

**Synopsis for the proposed research work for the Ph.D. degree
(To be submitted within six months from the date of submission of application for registration)**

1. Name of the candidate
2. Name of the Guide
- (i) Specialization.....
- (ii) If approved by PTU to guide doctoral research
3. Name of the Co-Guide
- (i) Specialization.....
- (ii) If approved by PTU to guide doctoral research

Research work for the Ph.D. Degree

Area of Research

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Title of Thesis

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Introduction

Objectives

Work done in India or Abroad

Technical programme/ conduct of Research / Major Equipment/ Lab. work facilities Needed.

Collaboration with other Universities/ Institutes

References :-

Signature of the Candidate

Date.....

Supervisor(s)

Guide

- (i) Name
- (ii) Designation

.....
Signature

Co-Guide

- (i) Name
- (ii) Designation

.....
Signature

PUNJAB TECHNICAL UNIVERSITY, JALANDHAR
Form for registration to the Degree of Doctor of Philosophy (Ph.D.)

1. Name In Block Letters)
2. Date of Birth
3. Father's Name
4. Date of Application
5. Present Official Address
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6. Present Home Address
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7. Institution in which employed
8. Post held
- 8(a) Department of the University/ approved centre, where research work will be carried out
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.....
- 8(b) Collaboration with another Institution (s)
9. Record of M. Tech. / M.E./ M.Sc. or equivalent Degree

University	Degree	Year of Passing	Percentage of Marks, CGPA or Overall Grade	Any other Information

7. Area of Proposed Research
8. Title of Thesis
- 9(a) Guide (Supervisor)
 - (i) Name
 - (ii) Address

- (iii) Qualifications
- (iv) Specialization
- 9(b) Co-Guide (Supervisor)
 - (i) Name
 - (ii) Address
 - (iii) Qualifications
 - (iv) Specialization
- 10. Whether in receipt of any Fellowship/ Scholarship
- 11. Whether the research is to be done as full time/ part time.....

I shall abide by the Ordinances and Regulations for the Degree of Doctor of Philosophy of Punjab Technical University, Jalandhar, which I have studied carefully.

**Signature of Head of Institute
(where working)**
Dated.....

Signature of Candidate
Dated.....

Recommendations of the Supervisor(s)

I/ We agree to guide Shri/ Shrimatiin his/her area of research mentioned above.

A. Guide

- 1. Name
- 2. Designation
- 3. Address
-
-
- 4. Telephone No.

.....
Signature

B. Co-Guide

- 1. Name
- 2. Designation
- 3. Address
-
-
- 4. Telephone No.

.....
Signature