

REGULATIONS: Ph.D

OBJECTIVES OF Ph.D. PROGRAMME

Keeping in view the long tradition of academic excellence, the following institutional goals have been laid for doctoral research:

- * To develop deep and broad understanding of fundamentals and state of the art of knowledge in the chosen field through courses and self-study,
- * To develop synergy between creativity, innovation and the frontiers of knowledge in the chosen field of study,
- * To develop ability and skills to carry out independent research and development to face the challenges posed to mankind on specific problems, and
- * To develop abilities to identify new possibilities in the given Indian social context and to undertake research and development through one's own initiatives.

The Degree of Doctor of philosophy is granted for research work in areas recognized by the Academic Departments of the Institute. The research work shall be an original work characterized either by the discovery of facts, or by a fresh approach towards the interpretation and application of facts, or development of equipment making a distinct advancement in instrument technology. It shall evince the candidate's capacity for critical examination and sound judgement and shall represent original contribution to the existing knowledge.

DURATION

The student shall submit his/her thesis within five years but not earlier than 2 ½ years from the date of his/her admission. RDC may give further extension on yearly basis after scrutinizing pending research work and with submission of requisite fee.

ADMISSION TO Ph.D. PROGRAMME

Admission to the PhD programmes is made on the basis of written test and interview 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. Applications are invited from candidates by advertising the programmes in leading Newspapers in the beginning of Odd semester and in the beginning of Even semester, every year.

The PhD Admission Committee of a department will consist of concerned Research Degree Committee plus all potential PhD supervisors.

The inter-se merit of candidates appeared in test will be made on the basis of merit calculated as per the following criteria:-

Weightage to marks in Master's programme = 40%

Weightage to marks in admission test = 40%

Weightage to interview = 20%

CATEGORIES OF ADMISSIONS

- Full-time
- Part-Time.

ELIGIBILITY CRITERIA

(A) FULL TIME

(i) A candidate seeking admission to the degree of Doctor of Philosophy must have obtained Master's degree in relevant discipline with minimum CGPA of 6.00 on a 10 Point scale or 55% marks in aggregate where marks are awarded or NET qualified.

(ii) Candidates shall be admitted on the basis of merit of written Test to be conducted by the concerned Department, followed by interview. During interview, a candidate is required to present his/her area of proposed research. Relaxation for appearing in the Entrance Test may be given to those candidates who have done MPhil or have qualified UGC/ CSIR(JRF)/ SLET/ GATE by the Admission Committee.

A) PART TIME

(i) A candidate seeking admission to the degree of Doctor of Philosophy must have obtained Master's degree in relevant discipline with minimum CGPA of 6.00 on a 10 Point scale or 55% marks in aggregate where marks are awarded or NET qualified.

(ii) Candidates shall be admitted on the basis of merit of written Test to be conducted by the concerned Department, followed by interview. During interview, a candidate is required to present his/her area of proposed research. Relaxation for appearing in the Entrance Test may be given to those candidates who have done MPhil or have qualified UGC/ CSIR(JRF)/ SLET/ GATE by the Admission Committee.

(iii) Part-time studies leading to PhD degree are permitted for professionally employed personnel such as working engineers, scientists and teachers. Such a candidate must be in employment at the time of admission for a minimum of 2 years and be engaged in professional work in the area to which admission is sought.

(iv) Part-time candidates are required to submit the “No Objection Certificate” from their parent organization/department/employer stating that the candidate is permitted to pursue studies on a part-time basis and that the candidate’s official duties permit her/him to devote sufficient time for research.

COURSE WORK

Every admitted candidate shall have to do course work for a minimum of one semester. The course work shall include two courses, namely, a course on research methodology (may include quantitative methods and computer Applications) and a professional course (Syllabus to be proposed by the allocated supervisor and approved by RDC).

Only those candidates who successfully complete the course work within one year of admission and with a minimum CGPA of 6.00 on 10.00 point scale shall be registered in the PhD programme.

RESEARCH DEGREE COMMITTEE (RDC)

Each department will constitute a Research Degree Committee for a two-year term consisting of

(i) Chairman of RDC - Head of the Department with a PhD Degree otherwise senior most Professor of the department with PhD Degree, failing which a senior professor from an allied department with PhD degree may be nominated by the Vice-Chancellor.

(ii) Two faculty members with PhD degree by rotation. If faculty members with PhD degree are not available in the department, then the Vice-Chancellor, can nominate these from an allied department. In case of Applied Sciences department at least one faculty member with PhD degree from various constituents/ disciplines in the department may be taken on rotational basis.

(iii) Thesis Supervisor

ELIGIBILITY CRITERIA FOR PhD SUPERVISOR

(i) Every registered scholar shall be assigned one or more research supervisor as approved by the RDC.

(ii) Any regular full-Time Faculty member of the concerned department holding a Doctorate degree having at least one years of service after doing PhD can be appointed a Supervisor.

(iii) Depending on the problem a scholar may be assigned two supervisors designated as Supervisor and Co-Supervisor. In no case the number of Co-Supervisors shall be more than one. The condition of two years of service after doing PhD in (ii) above will not be applicable to the Co-Supervisors.

- (iv) In special cases Co-Supervisor may be allowed by RDC from outside the Institute/University within or outside the country.
- (v) Further that no relative of the candidate shall be appointed as Supervisor/Co-Supervisor. A certificate to this effect will be given by the Supervisor/Co-supervisor along with the application for enrolment.
- (vi) The supervisor will have not more than seven research scholars at any point of time.
- (vii) Progress report shall be submitted after six month regularly.

ALLOCATION OF SUPERVISOR

The allocation of the supervisor for a selected student shall be decided by the RDC of the department concerned in a formal manner depending on the number of students per faculty member, the available specialization among the faculty supervisors and the research interests of the student as indicated by him / her at the time of interview and the options given by the students. The allotment / allocation of supervisor shall not be left to the individual student or faculty. The RDC is to facilitate this process in the academic interest. During the admission process, Potential supervisors can express their interest to RDC in guiding a student and this will be taken on record. After joining, the PhD student can meet the potential supervisor and may give his options for consideration by RDC. The RDC shall take the final decision for the allocation of supervisor(s) in a formal meeting where Potential supervisors are present.

SUBMISSION OF SYNOPSIS (RESEARCH PROPOSAL)

As one of the essential requirements for the registration in the PhD Programme, a candidate must present his research proposal in a State-Of-Art Seminar to the members of RDC to delineate the current state of knowledge through a suitable literature survey about the specific problem on which he/she wants to pursue research work. The methodology that he intends to use to conduct the research and the goals he intends to achieve on the completion of the research work should form an integral part of the proposal. A copy of the research proposal will be given to each member of the RDC of the department during the presentation. This presentation can be scheduled at least one semester after admission of candidate to PhD Programme, but no later than 2 years after his/her admission. In case a candidate fails to complete this requirement within 2 years, his/her admission to PhD Programme will be cancelled. The supervisor will coordinate the State-Of-Art Seminar. On acceptable proposal and presentation in the State-Of-Art Seminar, the RDC of the department will certify the fulfillment of the requirements for the registration of the candidate. This presentation may be attended by all faculty members and post graduate. students of different departments. **The**

quorum for holding the synopsis evaluation will be three members of RDC including supervisor.

REGISTRATION

Every candidate will be required to submit research proposal within 6 months, duly recommended by the Supervisor(s), after successful completion of the course work. Research proposal will be submitted to the concerned Head of the Department. In case of non-submission of proposal within the prescribed period, RDC on the recommendations of the Supervisor and Head of the Department may grant an extension for a maximum period of six months. If the candidate fails to submit the proposal even during the extended period her/his admission will be cancelled. In case the proposal is rejected by the RDC, he may resubmit it within next six months starting the date of meeting of RDC failing which her/his admission will be cancelled.

A student will be registered provided he/she fulfills the following requirements:

1. The candidate must have completed the Course Work.
2. A candidate has presented his/her research proposal in a State-Of-Art seminar to the members of RDC and the same is accepted.

TOPIC MODIFICATION

A candidate may within one year of his/her registration modify the scheme of his/her research work with the approval of the RDC. Provided that the RDC allows modifications to be made such that the modifications proposed did not involve any major change in the original scheme and scope of the subject.

MONITORING PROCESS

After the candidate is registered in PhD Programme, the progress of the research work will be continuously monitored through end-of-the-semester reports on a prescribed Performa to be sent by the supervisor to the RDC, which will make recommendation for continuation of the candidate in the PhD Programme.

PRE-SUBMISSION SEMINAR

There will be an open presentation of the work done by the candidate to RDC before the thesis is bound and submitted for evaluation provided that the candidate has published one research paper each (or the same has been accepted for publication) in a refereed national and international journal

on the basis of his PhD research work. The candidate shall produce evidence of same in the form of acceptance letter or the reprint. The RDC may recommend modification or extension of the work required before the thesis is completed.

A certificate from the supervisor(s) stating that all modifications, if any, recommended by RDC have been incorporated, the research work being reported is the original contribution of the candidate and the work has not been presented anywhere else for the award of any other degree, will be appended to the bound thesis. This presentation may be attended by all faculty members and M.Tech. students of different departments.

SUBMISSION OF THESIS

A thesis may be submitted after the approval of Pre-Submission by RDC. A brief synopsis of the thesis must accompany the thesis. The thesis must strictly fulfill the requirements of the format prescribed by the university. The candidate should submit required hardbound copies of the thesis along with copies of the synopsis for evaluation by RDC. Soft copy of synopsis as well as of thesis must accompany the hard copies at the time of submission.

After evaluation by RDC, thesis supervisor will arrange external examination as per university rules.

Composition of RDC

Chairperson	– Dean Research
Secretary	– HOD
Member	– 2x Subject Specialist/ Domain