

**REGULATIONS**  
**specific to**  
**Ph.D. Degree Programme**

{also refer: REGULATIONS (General) – Common to all Degree Programmes}

**1. DEGREE PROGRAMMES:**

1.1 Doctoral (Ph.D.) Degree Programmes are offered in the various departments/disciplines/programmes as listed below:

- a) Department of Civil Engineering
- b) Department of Applied Mechanics and Hydraulics
- c) Department of Mechanical Engineering
- d) Department of Electrical and Electronics Engineering
- e) Department of Electronics and Communication Engineering
- f) Department of Computer Engineering
- g) Department of Chemical Engineering
- h) Department of Metallurgical & Materials Engineering
- i) Department of Mining Engineering
- j) Department of Information Technology
- k) Department of Mathematical & Computational Sciences
- l) Department of Physics
- m) Department of Chemistry
- n) Department of Humanities, Social Sciences and Management

1.2 The provisions contained in these Regulations shall be applicable to any new Doctoral Research Programmes, either by any of the departments, or even possibly as inter (multi)disciplinary programmes, that may be introduced from time to time.

**2. ADMISSION:**

2.1 **Student Status:** There are five types of student status in the Ph.D Degree Programme:

- (a) Full-time student on Institute Scholarship
- (b) Full-time sponsored student on QIP (AICTE)
- (c) Full-time/External Registrant - sponsored student from Industry or other Organizations including Educational Institutions
- (d) Full-time/External Registrant- non-sponsored, non-scholarship student
- (e) Internal Registrant - sponsored Institute or Project staff of NITK

**Note:**

- i. The full-time candidates are the registrants who work on full-time basis at the Institute. The external registrants are the candidates who register at the Institute but do research outside the Institute. The internal registrants are the Institute faculty/staff who work on part-time basis at the Institute.
- ii. **Duration:** The duration of study shall be a minimum of TWO years and a maximum of SEVEN years for all categories of research scholars. Any student who concurrently registers for any postgraduate/research degree at another organization shall be automatically de-registered at the Institute. Also, a student, who has completed four years shall apply for extension of registration, in the prescribed format, every year till the submission of his thesis.
- iii. A student of type (a) will receive Institute scholarship for a maximum duration of FOUR years of the Ph.D. programme, subjected to scholarship rules of the Institute.

- iv. Student of the type (c) shall be sponsored and financed by the sponsoring organization. He should produce a sponsorship-cum-clearance certificate in the given format of the Institute.
  - v. A non-sponsored non-scholarship (self-financed) student of type (d) will not receive any financial assistance from the Institute.
  - vi. An internal student of type (e) shall produce a sponsorship-cum-clearance certificate from the Director, NITK. They may be converted to Full-time research scholars after the completion of the project with the recommendation from the respective DRPC.
  - vii. The status of research scholar should be maintained the same throughout the program. However, change of status from full-time to internal registration may be considered based on the recommendations of DRPC on a case to case basis. In general, the conversion from internal/external registration to full time will not be permitted.
  - viii. No student can receive scholarship/ fellowship from more than one source.
- 2.2 Admission to a Ph.D. Programme shall be open to candidates who passed the prescribed qualifying degree examination in relevant field with a Cumulative Grade Point Average (CGPA) of at least 6.0 in the 0-10 scale grading system, or not less than 60% marks in the aggregate (taking into account the marks scored in all the subjects of all the public/ university examinations conducted during the entire prescribed period for the degree programme). However, this prescribed minimum shall be a CGPA of 5.5 or 55% marks in the aggregate for SC/ST/PWD candidates.
- 2.3 As per UGC norms, students of type (a) must have passed GATE/ UGC-CSIR exam/ DAE-JEST/ or an exam conducted by the Institute to be admitted to Ph.D. Programme.
- 2.4 A limited number of admissions is offered to Foreign Nationals and Indians Living Abroad in accordance with the rules applicable for such admission issued from time to time by MHRD.
- 2.5 If, at any time after admission, it is found that a candidate had not in fact fulfilled all the requirements stipulated in the offer of admission, in any form whatsoever, including possible misinformation etc., this matter shall be reported to the Senate, recommending revoking the admission of the candidate.
- 2.6 Candidates have to fulfil the medical standards required for admission as prescribed in the information bulletin.
- 2.7 The Institute reserves the right to cancel the admissions of any student and ask him to discontinue his studies at any stage of his career on the grounds of unsatisfactory academic performance or indiscipline or any misconduct.
- 2.8 The decision of the Senate regarding the admissions is final and binding.
- 2.9 Every Ph.D. student/scholar of the Institute shall be associated with Parent Department, offering the degree programme that the student undergoes (or the department that his Research Guide belongs to), throughout his study period.
3. PROGRAMME STRUCTURE:
- 3.1 The Ph.D. Degree Programme Structure consists of the following stages:
- (i) Ph.D. Course Work and Evaluation;
  - (ii) MLC: HU800 Research methodology
  - (iii) Research Proposal Submission and Assessment;
  - (iv) Research Progress Assessment;
  - (v) Pre-Synopsis Seminar and Synopsis Submission;
  - (vi) Ph.D. Thesis Submission and Assessment.

- 3.2 The Minimum Course Credit Requirement is 12.  
(courses carrying 'S'/'N' grades shall not be counted).

Out of 12 credits required, only one self study course (900 level) with a maximum of 4 credits is permitted with the recommendation by the DRPC of the respective departments and approved by Dean (A).

- 3.3 The course work must be completed within the first TWO years, with a minimum CGPA of 5.50.
- 3.4 A minimum of one semester (preferably first semester) residential requirement is to be completed by all the external registrants during the completion of course credit requirements. However, the duration and the number of visits to the Institute after the course completion shall be decided by the Research Guide.
- 3.5 Every research scholar is required to undergo registration at the commencement of each semester on the days fixed for such registration and notified in the academic calendar.

#### 4. RESEARCH GUIDE:

- 4.1 In each Department, applicants will be given at the time of selection the details of research areas proposed by various faculty members for Ph.D. programmes so that they will have an opportunity to discuss those areas with the respective faculty members and thereafter, indicate their choice in order of preference. The applicants shall then be interviewed by a committee constituted by the DRPC.
- 4.2 The faculty of the Institute who are appointed on permanent basis may be approved as Research Guide if they have Ph.D. degree or as and when they acquire Ph.D. A formal request in this regard may be made in the specified format for the approval of Dean (A) and the matter may be placed as reporting item in the BOS.
- 4.3 One Research Guide, selected among the faculty of the Department in which he has registered, shall be allotted to each Research scholar by the HOD of the parent department on the recommendations of DRPC at the time of admission. If the faculty is reaching superannuation and has less than 3 years of service in the Institute, an additional Research Guide from the parent department should also be assigned.
- 4.4 Depending on the research requirements, an additional faculty member or possibly an expert from outside the Department / Institute may be considered as a second Guide (additional-Guide). However, the main Research Guide shall be from within the parent department. In the case of external person applying for inclusion as an additional Research Guide for a specific research scholar, the application shall be scrutinized and approved by the BOS in order for a person to be recognized as an additional Research Guide. The list of approved guides will be reported to Senate.
- 4.5 The inclusion of additional guide is allowed till the submission of the research proposal seminar.
- 4.6 In case the Research guide is going to be away from the Institute for a period of more than one year then an additional guide from the Parent Department need to be identified and approved prior to leaving.
- 4.7 Change of Research Guide(s) under exceptional circumstances shall be permitted on recommendation of the DRPC after obtaining the consent of (i) the Research Scholar (ii) the present Guide(s) and (iii) the proposed Guide(s).

- 4.8 At any given time the number of Research Students/Scholars registered with a Research Guide shall not exceed FIVE(Excluding the numbers of students registered with the Guide in the case of funded projects). In this regard, being a co-guide for two Full-Time Research Scholars or being the sole Research Guide for two External/Internal Registrants (Research Scholars), is equivalent to being the sole Research Guide for one Research Scholar.

5. EVALUATION SYSTEM:

5.1 Ph.D. Course Work Evaluation

The Ph.D. course work evaluation shall be similar to that of other courses, and the details are given in the corresponding section in the Regulations (General) Common to all Post Graduate Degree Programmes (refer: Section G5).

5.2 Research Proposal Submission and Assessment

Every PhD student is required to submit his research proposal in the prescribed format, within 18 months after joining for the program. Chairman Senate is authorized to condone the delay upto 2 years. Beyond 2 years, approval by Senate is required up to two and a half years . If the delay is beyond two and a half years the registration is liable to be terminated. The Ph.D Research proposal must contain details including literature survey, problem identification, state of the art technology, plan of Research work, etc.. The RPAC will assess the proposal through an open seminar and communicate the recommendation along with detailed report for approval or otherwise to the Dean (A) through DRPC.

5.3 Research Progress Assessment

- 5.3.1 After the approval of Research Proposal, yearly assessments are made, through open seminars, to ensure satisfactory progress. The Research Scholar shall submit, through his Guide(s), a progress report of his research to the concerned RPAC every year. The progress seminars are to be presented within the first one month of every academic year as applicable to the scholar. Beyond four years the scholars are required to give half yearly progress seminars, (within the first month of every semester). In case of possible delay, prior permission should be obtained from Dean(A) at least 15 days before the due date. The RPAC will communicate to the DRPC a detailed report about the progress The DRPC will forward the RPAC Report to the Deputy Registrar (Academic) for filing in the appropriate records. Only those cases which require further action may be brought to the attention of the Dean (A) and/or the Director. If the research scholars fail to fulfill the above requirements, the registration is liable to be terminated.

- 5.3.2 (a) The continuance of registration of all research scholars is subject to satisfactory progress made by them. The progress seminars are to be presented as per 5.3.1
- (b) Ph.D registration is valid up to four years from the date of joining. Beyond four years, candidates should seek extension of registration by applying in the specific format within the stipulated date. Extension will be granted on yearly basis. The registration is liable to be terminated if the research scholars fail to obtain extension of registration
- (c) For granting extension the following conditions must be fulfilled:
- (i) For extension beyond 4 years – satisfactory progress (through a seminar) during the previous period and two conference papers.
  - (ii) For extension beyond 5 years –two half yearly progress seminars along with one journals publication and /or conference paper in the fifth year.
  - (iii) For extension beyond 5 years –two half yearly progress seminars along with one journals publication and /or conference paper in the sixth year.

- 5.3.3 Prior to Pre-synopsis seminar, the scholar is required to give at least TWO satisfactory Research Progress Assessment Seminars on the topic of his research, and have at least one paper published or accepted for publications preferably in a refereed journal or in a conference proceedings.

#### 5.4 Pre-Synopsis Seminar and Synopsis Submission

- 5.4.1 Prior to the submission of the Synopsis of the Thesis, a comprehensive internal assessment of the research work should be made by RPAC by a Pre-Synopsis Seminar. The candidate can submit the Synopsis only if RPAC is satisfied about the quality of the work for submission as a Ph.D. Thesis.
- 5.4.2 Details of the Pre-Synopsis Seminar shall be notified well in advance, so as to enable interested staff members and students to attend the same.
- 5.4.3 The Chairman of the DRPC shall forward the RPAC's assessment report on the Pre-Synopsis Seminar to the Director.
- 5.4.4 THREE printed copies and ONE soft copy (PDF format) of the synopsis shall be submitted to the Dean(A) through Chairman of the DRPC, in the prescribed format consisting of maximum of 15 pages including bibliography of research work, with the following certificates (not required for soft copy)
- (a) Certificate from the Chairman, DRPC that the Pre-Synopsis Seminar has been completed satisfactorily.
  - (b) Declaration from the Research Scholar in a prescribed proforma, stating:
    - i. Bonafide nature of the work;
    - ii. that the thesis does not contain any work which has been previously submitted for the award of any degree, and
    - iii. the extent of collaboration, if any.
  - (c) Details of the courses studied (for all categories of research scholars) and also certificates with regard to the residential clause from the guide and Head of the Department (for external registrants).
- 5.4.5(a) Institute Scholars may be permitted to submit the thesis from outside only after submission of synopsis on recommendation of DRPC and approval by the Dean(A)
- (b) QIP Scholars may be permitted to leave the Institute after 3 years and to submit the synopsis and thesis from outside, on recommendation of RPAC, DRPC and approval by Dean(A)

#### 5.5 Ph.D. Thesis Submission and Assessment

- 5.5.1 Prior to the thesis submission, the scholar should have preferably two but at least one paper published or accepted for publication in a refereed journal.
- 5.5.2 THREE printed copies (soft-bound) and ONE soft copy (PDF format) of the thesis shall be submitted to the Dean(A), through Chairman of the DRPC, in the prescribed format, not later than three months from the date of submission of the Synopsis
- (i) if the thesis is submitted after 3 months of submission of Synopsis, approval of the Chairman Senate is necessary for submission upto 6 months. However, a prescribed fine is to be paid by the scholar.

- (ii) If the thesis is not submitted within six months after submitting the synopsis, the registration is liable to be terminated.
- 5.5.3 Along with the Thesis, the Research Scholar shall submit the requisite forms containing the authorization from the Research Guide(s) for submission of the Thesis and a certificate from Accounts Section that there are no dues against the Scholar and the details on research publications.
- 5.5.4 The Ph.D. Thesis submitted by the scholar will be evaluated by DTAC constituted by Director by selecting two external referees (one will be invited for defense also) from the Panel submitted by DRPC.
- 5.5.5 The referees shall independently report to the Dean (A), preferably within six weeks from the date of their receipt of the Thesis. The referees will be requested to indicate their decision in a specific evaluation format supplied by the Institute and that their reports should include -
- i. a critical survey and evaluation of the quality and quantity of the work as embodied in the thesis.
  - ii. questions, if any, to be asked or points to be clarified at the viva-voce examination, and
  - iii. a definite recommendation as to whether the Thesis is acceptable for the award of the degree of 'Doctor of Philosophy'.
- 5.5.6 If a referee in his report is not in a position to make a definite recommendation for the award of the degree, he should be requested to assist in deciding whether the candidate is required to make:
- i. Substantial revisions involving rewriting of one or more chapters without, however, doing any further Research work.
  - ii. completely rewrite the thesis if the thesis, though not acceptable, in the present form, reveals sufficient quality and quantity of work to warrant the candidate being given an opportunity for further Research work and/ or reinterpretation of results.
- 5.5.7 The copies of the referees' reports when received shall be confidentially made available to the Research Guide(s) through Chairman, DRPC. The Research Guide(s) shall send comments on these reports through DRPC for consideration by the Dean (A).
- 5.5.8 On the basis of the referees' reports and the Research Guide(s)' comments thereon, the Dean (A) will decide whether the Thesis be accepted for the viva-voce examination, or be referred again to a new referee.
- 5.5.9 A thesis may be considered acceptable for holding the viva-voce examination if both the referees give positive recommendations. If one of them accepts and the other rejects; the Thesis as it is, shall be referred to a third referee chosen from the Panel of Referees by the Director.
- 5.5.10 Whenever a Thesis is referred to a third referee, the comments of the Research Guide point by point for the queries by the first two referees should also be reported to the Dean (A) along with the comments for the queries by the third referee.
- 5.5.11 If the referees recommend acceptance of the thesis subject to minor modifications only, the thesis can be resubmitted after incorporating the modifications in the light of the referees' comments, within a period of six months. The Thesis so resubmitted be preferably examined by the same referees. However, a prescribed fine is to be paid by the scholar if the thesis is resubmitted after 6 months but within one year. If the thesis is not resubmitted within one year the registration is liable to be terminated.

- 5.5.12 A Thesis rejected by two referees may be re-submitted after revision, incorporating the required modifications and/or alterations and/or additions etc., in the light of the referees' comments. Such resubmission shall be made not earlier than three months and not later than one year from the date of such intimation to the Research Scholar by the Dean (A). The Thesis so resubmitted may be examined either by the same referees or by new referees.
- 5.5.13 Rejection of the thesis so resubmitted will disqualify the candidate from further consideration for the award of the Ph.D. degree, in the topic of research chosen by him.
- 5.5.14 A candidate, whose thesis has been recommended for the award of the Ph.D. degree, shall be required to defend his Thesis at an open viva-voce examination conducted by the DTAC. After satisfactory defense of the work, the DTAC will recommend the approval of thesis to the Director through DRPC for further action towards the award of the Ph.D. degree.
- 5.5.15 The DTAC shall submit its report in the prescribed form to the Director within ONE month after the completion of viva-voce exam. It is the responsibility of the Research Guide to see that all the necessary corrections are incorporated in the final version of the thesis before sending the DTAC report to the Director.
- 5.5.16 After satisfactory completion of the viva-voce examination, the degree may be conferred after approval by the Senate.
- 5.5.17 If a Thesis has been accepted but the candidate fails at the viva-voce examination, he may be permitted by the Director to re-appear for viva-voce examination again at a later date. The Recommendations of the DTAC conducting the viva-voce examination shall be considered by DRPC in taking a decision in this respect.
- 5.5.18 After successful completion of the viva-voce examination, the candidate shall submit to the DRPC the prescribed number of copies (one hard copy and a CD) of his approved Thesis (incorporating all the necessary corrections) in the prescribed format.
- 5.5.19 The abstracts of evaluation reports of PhD theses will be placed before the Senate as reporting item. The full original reports of all examiners will be placed before the Senate only in those cases of rejection by one of the examiners.
6. SCHOLARSHIP AND PAYMENT OF FEES:
- 6.1 The Institute Research Scholars will be paid scholarship at a rate in accordance with the directives from the appropriate authorities.
- 6.2 In case of institute scholarship holders, the continuance of scholarship beyond two years will be subject to satisfactory progress made by them as assessed by the pertinent RPAC and approved by DRPC
- 6.3 The PhD Research Scholars receiving scholarship or any other type of financial aid shall abide by the Scholarship Rules and/or other applicable Rules.
- 6.4 The Research Scholars need to pay the Institute fees till the submission of the Thesis.

7. DEGREE REQUIREMENTS:

The degree requirements of a scholar for the Ph.D Degree Programme are as follows:

*7.1 Institute Requirements:*

- (i) Minimum Earned Credit in the Ph.D. Course Work of 12, with a minimum CGPA of 5.50, completed within the first TWO years (refer: Programme Structure, Clause No: 3.2 & 3.3 above).
- (ii) Institute Residential Requirement (refer: Programme Structure, Clause No: 3.4 above).
- (iii) Satisfactory completion of all the SIX stages of the Programme (refer: Programme Structure, Clause No: 3.1 above).
- (iv) Satisfactory Defense of Thesis.

7.2 The Maximum duration for a student for complying to the degree requirement is SEVEN years from date of registration for his first semester for the Research Scholars of all categories.

8. TERMINATION FROM THE PROGRAMME:

A student shall be required to leave the Doctoral degree programme under following circumstances:

- (a) If the student is absent for more than SIX (6) weeks in a semester without sanctioned leave
- (b) Student fails to submit satisfactory Research Proposal within two and a half years of joining the programme.
- (c) Student fails to give the research progress seminars within the stipulated time
- (d) Student fails to register for each academic semester within the date specified
- (e) The Research scholar fails to obtain extension of registration
- (f) If the thesis is not submitted within six months after submitting the synopsis
- (g) If the Thesis is asked for re-submission and not submitted within one year after asking for resubmission
- (h) If the Ph.D Thesis has not been accepted after TWO submissions
- (i) At the end of seven years of registration
- (j) Based on Disciplinary action, on recommendation by the appropriate committee.

NOTE: Under any circumstances of termination, the conditions specified in Permanent Withdrawal (refer: Clause No: G10.2) shall also apply.

9. COMMITTEES / FUNCTIONARIES:

The following committees shall be constituted for the Doctoral Research Degree programme:

9.1 Board of Studies (BOS-Research):

*Constitution:*

- |     |            |     |          |
|-----|------------|-----|----------|
| (a) | Dean (A)   | ... | Chairman |
| (b) | Dean (FW)  | ... | Member   |
| (c) | Dean (P&D) | ... | Member   |



(d)	Dean (R&C)	...	Member
(e)	Dean (SW)	...	Member
(f)	Dean(AA&IR)	...	Member
(g)	H.O.D of each department/his nominee	...	Member
(h)	BOG members representing the faculty	...	Member
(i)	Asst.. Registrar (Academic)	...	Convenor
(j)	Dy. Registrar (Academic)	...	Secretary
(k)	TWO External Experts	...	Members

Note:

- There shall be one BOS - Research for the entire Institute.
- The Chairman may co-opt and/or invite more members including outside experts.
- The quorum of each meeting will be NINE.

*Functions (Highlights):*

- To frame and revise curricula for the courses of study.
- To consider the recommendations of the DRPC on matters relating to Ph.D. programme and to make suitable recommendations to the Senate.
- To ensure that all norms and Regulations pertaining to Ph.D. Programme are strictly followed.
- To make periodic review of ordinances, Regulations and instructions pertaining to Ph.D. Programme and to recommend to the Senate any modification thereof.
- To scrutinize the Bio-data of the intending Research Guides and to recommend issue of registration letters to the competent persons.
- To recommend to the Senate, the award of stipends, scholarships, medals and prizes etc.
- To draw up general time table for the Ph.D. programme and finalise the Academic Calendar to be put up to the Senate for approval.
- To consider the cases of malpractice in examinations and to recommend to the Director the punishment for such cases.
- To conduct at least one meeting each semester and send the Resolutions to the Chairman of the Senate, and also to maintain a record of the same in the office of Dean (A).
- Any appropriate responsibility or function assigned by the Senate or the Chairman of the Senate.

## 9.2 Doctoral Research Programme Committee (DRPC):

*Constitution:*

(a)	H.O.D. / Programme Co-ordinator or a Professor nominated by the Director	...	Chairman
(b)	All approved Ph.D. Guides associated with the Research Programme	...	Members

Note:

- There shall be one DRPC for every department that is involved in the Ph.D. degree programme, or for every inter (multi) disciplinary doctoral research programme.

- The Secretary (DRPC) shall be nominated by the Chairman on rotation basis for a period of one year.
- The Chairman may co-opt/invite more members including a maximum of three outside experts.
- The quorum for each meeting shall be THREE.

*Functions (Highlights):*

- To monitor the conduct of all courses of the department for the PhD programme.
- To ensure academic standard and excellence of the courses offered by the department.
- To obtain the evaluation of each student in a course separately for Course Instructor's assessment, mid-semester tests and end-semester tests.
- To consolidate the grades of the students registered for various courses offered by the Department and submitted by the different Course instructors. The CGPA for each scholar should be computed up to the end of PhD Course Work and sent to the Academic Section of the Dean (A).
- To take appropriate actions based on communication of RPAC and DTAC.
- To recommend the Panel of Members, as proposed by the Guide, for the formation of RPAC (three within Department, three outside the Department) to the Dean (A) for approval.
- To recommend the Panel of Referees in consultation with the Guide for formation of DTAC (TEN Referees, with FIVE drawn from India and FIVE from abroad) to the Director for approval, immediately after the acceptance of the RPAC's report on the Pre-Synopsis Seminar and along with the submission of the Synopsis to the Director.
- To consider any matter related to the Research programme of the department.
- To conduct at least two meetings each semester and send the proceedings of the meeting to Dean(A).
- To maintain a separate register to record the minutes of all the meetings.

9.3 Research Progress Assessment Committee (RPAC):

*Constitution:*

- |  |      |          |
|--|------|----------|
| (a) Guide  | .... | Chairman |
| (b) Additional -Guide (if any)   | .... | Member   |
| (c) At least One Faculty from the parent department of Ph.D Scholar ,selected by Dean (A), from the recommended panel.       | .... | Member   |
| (d) At least One Faculty from outside the parent department of the, Guides selected by Dean (A), from the recommended panel. | .... | Member   |

Note:

- There shall be one RPAC for each Ph.D. scholar.
- The RPAC shall be constituted by the Dean (A) based on the recommendation of DRPC.
- Under special circumstances, members from outside the Institute may be co-opted with the prior approval of Dean (A).

*Functions (Highlights)*

- To assess and approve the Research Proposal and Synopsis.

- (ii) To communicate the yearly assessment reports about the progress of the research work to DRPC.
- (iii) To assess the Pre-Synopsis Seminar and communicate the results to the Director through the DRPC.

#### 9.4 Doctoral Thesis Assessment Committee (DTAC):

##### *Constitution:*

- (a) Chairman DRPC ... Chairman  
or a Professor nominated by the Director  
on recommendation of DRPC
- (b) Guide(s) ... Member(s)
- (c) At least One Faculty from within the parent department of Ph.D scholar,  
selected by Dean (A) from the recommended panel. ... Member
- (d) At least One Faculty from outside the parent department of the guides(s),  
selected by Dean(A) from the recommended panel ... Member
- (e) Two External Referees ... Members
- (f) RPAC Members ... Invited Members

##### *Note:*

- There shall be one DTAC for each Ph.D. scholar.
- The DTAC shall be constituted by the Director when the scholar submits the PhD Thesis for assessment.
- The two external referees shall be selected by the Director, from a panel of TEN referees (Five from India and Five from abroad). These TWO External Referees will be requested for an assessment of the PhD Thesis, and one of these Referees will be invited for the final Thesis Defense and Viva-Voce Examination.

##### *Functions (Highlights):*

- (i) The two external referees will evaluate the Doctoral Thesis and send the report to Director.
- (ii) DTAC will evaluate the research work and the Doctoral Thesis, based on the defense of the Thesis through an open seminar and viva-voce examination and send the report to Director through DRPC

#### 9.5 Research Guide:

##### *Functions (Highlights):*

- i. He will guide the student to select a topic for research.
- ii. He will suggest the courses for doctoral course work.
- iii. He will monitor the progress of the student / scholar.
- iv. He will suggest a Panel of Referees to the DRPC for RPAC and DTAC.
- v. He will approve and forward all the applications of the student/scholar.
- vi. He will provide or arrange for facilities to carry out research.
- vii. In the event of leaving the Institute or away from the institute for a considerable period, he has to arrange for a Change of Research Guide as per Clause No: 4.5 above.

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