

| Regulations | Operating Guidelines | | |
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| 1. Eligibility | | | |
| 1.1 Master's Degree of this University or any other qualification recognized as equivalent thereto in the fields of study notified from time to time by this University. | 1.2 Degrees in distance mode should have been approved by DEC. | | |
| Bachelor's Degree in Engineering/Technology with First class with Distinction of this University or any other qualification recognized as equivalent thereto in the field of study with a minimum of 3 Years of R & D Experience in National Research Laboratories / Public sector undertakings with proven research excellence in terms of publications/ patents/ projects. | | | |
| 1.2 Minimum eligibility is 55% of marks or equivalent CGPA. However 5% relaxation is given to the candidates belonging to SC/ST. | | | |
| 2. Categories of Ph.D candidates and place of | | | |
| research | | | |
| 2.1 There shall be three categories of Ph.D. candidates as listed under: a) Full -time, b) Part-time (Internal), c) Part-time (External) i) Full-time Candidates :All approved candidates who pursue full-time study and research in this University shall belong to this category. ii) Part-time Candidates (Internal): All approved candidates who are employed in this University and actively involved in the relevant area of teaching, research or development as part of their regular work shall belong to this category. iii) Part-time Candidates (External): Candidates working in Industry involved in R&D activities or Research Organisations recognized by this University, and who are permitted for pursuing Ph.D. Programmes in this University while continuing in their job, shall belong to this category. While they shall pursue research in their place of employment, such candidates shall report to their respective supervisor as and when required. | 2.1.(iii) Supervisor should ensure that the experimental work done outside Karunya University is in a standard laboratory. When an establishment desires to be recognised as research centre should apply to Karunya University and an expert committee to be constituted by BRC will inspect such organization and submit a report. The BRC will decide to recognise or not to recognise depending on this report. If approved, an affiliation fee is to be paid by the establishment. | | |
| 2.2 Research outside the University: | | | |
| During the course of the Ph.D. Programme, for reasons approved by the Doctoral Committee, a candidate may be permitted by the University to spend up to one year in an Institution or on a project approved for the purpose, outside the University for carrying out research in areas related to the subject of investigation. The conditions for this will be laid down by BRC from time to time. | | | |

3. Duration of the programme:

3.1 The duration of the programme and minimum time for submission of thesis after the date of registrations will be as per the table given below:

| | | Full | Part |
|---|--|----------|---------|
| | | time | Time |
| A | PG in Engineering / Agricultural / Veterinary / Medicines etc. | 2 112000 | 2 |
| В | M. Phil. In Arts / Science / Humanities / Management | 2 years | 3 years |
| C | PG In Arts / Science / Humanities / | | |
| | Management | 2 *** | 1 |
| D | UG in Engineering / Agricultural / Veterinary / Medicines etc. | 3 years | 4 years |

3.2 In all the categories the maximum period shall be six years. In exceptional cases maximum period shall be extended by half an year at a time, maximum of four times based on the recommendation of the Doctoral Committee. This shall be approved by Board of Research & Consultancy.

3.2 The candidate shall apply for extension to the Doctoral Committee justifying the request. On approval from the BRC the candidate is required to pay an extension fee apart from the regular fees.

4. Admission Procedure

- 4.1 Candidates desirous of registering for the Ph.D. Degree shall submit the application in the prescribed form through proper channel, wherever applicable in response to the advertisement by the University.
- 4.2 All eligible applicants will be called for a written entrance test and interview. The admissions will be based on a merit list based on the consistent academic record and performance in the entrance test and interview.
- 4.3 The candidate will be issued a provisional **admission** letter by the Admission Office of the University
- 4.4 Candidate shall be admitted for the programme by paying the initial fees prescribed [which will be pro-rata in case of even semester admission] and then will continue to pay the prescribed fees every semester, in order to keep the Ph.D. Registration alive until the thesis is submitted. If a candidate fails to do so within the permissible dates of payment of fees, the registration will be withdrawn and the candidate's name will be removed from the rolls after referring to the Research Supervisor.
- 4.5 Provisional admission will be given only after paying of fees and submission of all original certificates as required by the University.
- 4.6 Within a week of the admission, the School research committee along with all approved research supervisors of the school will allocate Research supervisors for each candidate and to be submitted to Dean (Research) for approval and subsequent ratification by BRC

4.1 Dean (Research) office will work out a schedule for admission to enable the Research students to be admitted 30 days prior to the date of opening of both semesters The schedule will consist of Date of advertisement in the newspapers [simultaneously uploaded in the net]; Last date for receiving of application forms; Date of Entrance test and interview and Date of admission.

He will also help Registrar in releasing of advertisement by supplying the relevant information which will be collected from schools in the prescribed proforma.

- 4.2 The Research Committee of the School headed by the Director shall verify the following while scrutinizing an application: The other members of this committee shall be the HoDs and two senior faculty members.
 - a) qualifications obtained by the applicant
 - b) eligibility criteria minimum qualifying marks.
 - c) recognition of the University which awarded the degree
 - d) For part-time (External) candidates employment details and necessary certification by the employer in the

4.7 The date of registration will be specified by the Doctoral Committee in its first meeting.

application

Process of an application:

- The application shall be sent directly to Dean (Research) by the applicant.
- Dean (Research) shall forward the application to the concerned School / Department for scrutiny and remarks.
- The Dean (Research) or nominee shall conduct a written entrance test for all aspirants in General & research aptitude and Analytical skills.
- The students will also an interview in the concerned department.
- The research committee will tabulate in the given format, the marks of the candidates as per the weightage given below:

UG – 5; PG – 20; Experience – 5 [half a mark for each year of service]; Publications – 5; [2- for International refereed Journals, 1 -National refereed iournal Conference conducted Professional by Associations]; Entrance test – 40 [Part A - 15 marks for common test and Part B - 25 marks for departmental test to be conducted together]; Interview by the Department -25.

- School / Department wise merit list will be prepared and displayed at the earliest and also uploaded in the Karunya Website.
- This table and rank list along with the answer scripts should be sent to the Dean (Research) office by the Director.
- Dean (Research) will forward the rank list to Admission Officer; who will admit the students as per the vacant seats notified in the advertisement, marking a copy of the offer letter to the Director of Schools
- The Dean (Research) will present the table and rank list to the BRC for ratification.

5. Research Supervisors and Number of Candidates

5.1 An updated and approved panel of recognised Research Supervisors for the Ph.D. programme of the University shall be maintained by the Dean (Research). Faculty members of this University who can guide in interdisciplinary areas shall register themselves in the relevant Schools. The Research Committee of

the School / Dept. shall examine and recommend the application form to BRC. After approval the faculty member can be included in the panel of recognized Supervisors.

- 5.2 All categories of Ph.D. registrants shall be required to work under a recognised Research Supervisor of this University. The students can also have a Joint-Supervisor, depending on the nature of work.
- 5.3 In the case of Part-Time candidates (External) there shall be a Co-guide/ Research Coordinator from the organisation where the/candidate is planning to do research, if the research involves experiments and or data collection as specified by the Doctoral Committee.
- 5.4 In exceptional cases a candidate shall be allowed to register under a recognised guide of this University, who is working in an approved institution/R&D lab/Industry by this University. However in such cases Research Coordinator from this University is mandatory.
- 5.5 When the Research Supervisor of a candidate happens to be away from the University on other assignments for more than six months, he/she may continue to guide the candidate, but a Joint Research Supervisor belonging to the University faculty shall be officially nominated by the BRC in keeping with abilities and background, and research adequacies and willingness of the Joint Research Supervisor in consultation with the Research Supervisor.
- 5.6 If the research supervisor happens to resign, Dean (Research) shall appoint a new supervisor from the relevant area within one month.

5.7 Provision for changes

(i) Change of Research Supervisor:

If a research scholar wants to change his / her supervisor for valid reasons, he / she shall write to Dean (Research).

The BRC may approve the request of the research scholar to change his/her Research Supervisor on valid reasons. In such cases, a new Doctoral Committee can be constituted, if required.

(ii) Change in the category: A full time research scholar in the event of getting any employment may change the category from Full - time to Part – time and vice-versa. In such cases the duration of the programme shall be reviewed by Dean (Research)

5.8 Recognition:

Recognition of Research Supervisor for guiding research work will be accorded by the Chairman-Academic Council on making an application in the prescribed format and on the recommendations of the BRC, provided the applicant possess the following:

5.3 The Supervisor should ensure that the research coordinator is approved before the commencement of experiments and or data collection.

5.6

If a Research Supervisor happens to resign / incapacitated /die, the same shall be brought to the notice of the Dean (Research) immediately after the submission of his / her resignation notice by the Registrar.

Dean (Research) in consultation with the concerned Director of School and Joint Supervisor if any, shall appoint a New Supervisor. If necessary, a new Doctoral Committee can be constituted. This shall be subsequently ratified by the BRC.

5.7

For changing of Research Supervisor, the research scholar will write to Dean (Research).

Dean (Research) will call for a meeting of the Research Committee of the school to scrutinise the request.

If the committee approves the request, Dean (Research) shall appoint the new Supervisor. This shall subsequently be ratified by the BRC. In such cases, the Doctoral Committee can also be reconstituted by the Dean (Research).

5.8

In order to have Supervisors with good calibre, experts with high credentials will be selected.

- (i) A Ph.D. Degree in the relevant or allied areas of research in which he/she proposes to guide the candidate.
- (ii) A minimum of two publications in the relevant or allied areas of research in a refereed Journal or a patent.

5.9 Number of Candidates

A Supervisor shall not guide more than eight doctoral candidates at any time.

6. Doctoral Committee

6.1 The Doctoral Committee shall be constituted by the Supervisor as under and the same to be submitted to Dean (Research) for approval.

Research Supervisor / Research Coordinator - Convenor Joint Supervisor, if any - Member One internal expert - Member One external expert - Member

- 6.3 The Supervisor / Research Coordinator from the University shall be the Convenor of the Doctoral Committee. In the event of the Supervisor of the University leaving the University temporarily or permanently the Second/Joint-Research Supervisor shall be the Convenor.
- 6.4 All communications shall be routed through the concerned HoD and Director of the School.

Dean (Research) will ensure that the experts selected meet the following criteria:

Criteria for the selection of an Expert:

- Should be a specialist in the topic / area of research proposed by the Research Scholar.
- Should have minimum 3 years experience after obtaining Ph. D.

OR

Should have adequate proven experience in his/her field of research and publications in his/her field of research in reputed journals / conferences.

 As far as possible, experts shall be from reputed institutions / Research organisations

Schools are expected to have a large panel of external experts, who are specialists in various research areas of the School along with their CV. The faculty of the school should periodically add experts to this list.

The supervisors should not be searching for experts when ever a student is admitted but select the external members from this panel.

7. Prescription of Course work

7.1 Course work

- i) The Doctoral Committee of the candidate shall meet within thirty days of admission and prescribe course work for the candidate.
- ii) Every student would have to undertake course work for a minimum period of one semester of subjects at P.G level being offered under any approved programme of this University as recommended by the Doctoral Committee.

Subjects at P.G level being offered under any approved programme of this University shall be recommended as per their qualification [refer 3.1] by the Doctoral Committee from approved courses as under:

3.1 A - 8 credits

- iii) The course on Research methodology which will include quantitative methods and computer applications will be compulsory for all students, except those who have done this course as part of their M. Phil. programme.
- iv) If new courses are prescribed, then all such courses shall be approved by Chairman-Academic Council of this University and subsequently ratified by the academic bodies. The question paper will be set by the teacher and valued by one of the panel (3) members suggested by the teacher.
- v) No change in the courses prescribed shall be made without the prior approval of the Doctoral Committee.
- vi) The students are expected to register for courses at the commencement of any semester, the required number of term days should be completed before they are permitted to write examination.
- vii) Every student should acquire a minimum of 'C' Grade in each of the prescribed courses.
- viii) Apart from the above course work at the end of the semester every student is expected to give a seminar with a credit of 0:0:4 of literature survey of the research problem which should be comprehensive and exhaustive and will be open to all faculty and research students of the school and shall be attended by the DC members.

3.1 B – 16 credits – exemption can be given to the extent of the course work done in M.Phil.

3.1 C – 16 credits

3.1 D - 32 credits

Ph.D. scholars are generally exempted from attending class work and are expected to register their courses under self study with Controller of examinations as per the guidelines. However, if any course is being offered for other students, the research scholar may opt to attend the course.

The seminar on literature survey will be evaluated by the supervisor and the grade will be given in consultation with the DC members.

8. Monitoring the Progress of Candidates

- i) Discussions with Supervisors:
 - ◆ Each full-time PhD scholar is required to meet his / her Supervisor(s) at least once in a week and report the progress about the research work done.
 - ◆ Part-time PhD scholars are required to meet his / her Supervisor(s) at least once in a month and report the progress about the research work done.
 - Part-time PhD scholars are required to meet his / her Supervisor(s) at least once in two months and report the progress about the research work done, if they are working far away from the University.
 - Part-time PhD scholars are required to meet his / her Supervisor (s) at least once in six months and report the progress about the research work done, if they are working outside India.
- i) Every six months, commencing from the date of initial registration, the candidate shall submit progress reports in the prescribed format [Pro forma 3] to the Research Supervisor
- iii) The Research Supervisor shall arrange to make a presentation by the candidate of his/her work once in a year before the Doctoral

If the minutes of the Doctoral Committee are not received even after the 15 days after the due date Dean (Research) will take the necessary action.

committee. A Doctoral Committee (without external expert) shall review the progress of the candidate at least once in between two Doctoral Committee meetings. The supervisor will send the minutes of the DC meeting along with student report to Dean (Research)

iv) Irregularities in conducting DC meetings and submission of progress reports may lead to the cancellation of the registration of the candidate

9. Cancellation of Registration

The registration of a candidate whose progress is either not satisfactory or who has exceeded the maximum period (including grace period) stipulated for the Ph.D shall be cancelled by Board of Research and Consultancy based on the recommendation of Doctoral Committee.

10. Synopsis of Thesis

i) On satisfactory completion of the research work carried out after successful completion of all prescribed courses and the seminar on literature survey the candidate shall submit to the Doctoral Committee through the Research Supervisor, six copies of the synopsis of the Ph.D. work carried out.

The earliest date on which synopsis submission shall be six months before the date of submission of thesis as per norms.

- ii) The synopsis shall be accepted only when the Research Scholar has at least one paper either published or accepted for publication in a refereed journal.
- iii) The synopsis viva-voce shall be conducted by the Doctoral Committee in the presence of all faculty members and research scholars of the School. After satisfactory presentation of the research work reported in the synopsis, the Doctoral Committee shall forward six copies of the revised synopsis including the feed back from the Synopsis viva to the Controller of Examinations along with panel of examiners There shall be three different panels of three examiners each. A) From outside India B) From outside Tamilnadu, Pondichery and Kerala C) From within Tamilnadu, Pondichery and Kerala.

The research scholar shall submit the copy of synopsis at least 15 days before the date of DC meeting to the Supervisor for distribution to the DC members.

The Supervisor shall circulate the same to the DC members immediately after the submission of synopsis by the research scholar.

Two Professors are nominated by the Dean (Research) to be present at the synopsis meeting and give a written report to Dean (Research) marking a copy to the Supervisor.

The Vice-chancellor will pool the panel of examiners and rank them to be operated by CoE.

The controller will ensure that at least one examiner is from outside Tamilnadu.

11. Submission of Thesis

- i) The thesis shall be prepared in an organised and scholarly fashion with an account of the original research work of the candidate leading to the discovery of new facts or techniques or correlation of facts already known (analytical, experimental etc.) and demonstrating a quality as to make a definite contribution to the advancement of knowledge and the candidate's ability to undertake independent research and present the findings in an appropriate manner with actual accomplishments of the work, plainly stated and honestly appraised.
- Six copies of the thesis shall be prepared and submitted to the Controller of Examinations in accordance with the format and

specification prescribed. Thesis shall be submitted within six months of the approval of the Synopsis by the Doctoral Committee. The research scholar also shall submit three copies of the abstract of the thesis in about 400 words to Dean (Research). Under no circumstances, the thesis submission can be delayed except under extraordinary circumstances, where an extension of two months may be permissible with the recommendations of the Doctoral Committee.

- iii) The thesis shall include a certificate from the concerned Research Supervisor (and Joint Research Supervisor, Co guide, if any) to the effect that the thesis is a record of the bonafide research work carried out by the candidate under his/her/their supervision and guidance and that the work reported in the thesis has not been submitted elsewhere for a degree or diploma.
- iv) Instructions to candidates for preparing synopsis and thesis shall be laid down by the Controller of Examinations.
- v) Fees shall be paid by the candidates on six monthly basis, till the submission of the thesis; the candidate will submit a no dues certificate from all concerned to the Controller of Examination.

12. Thesis Evaluation

- The thesis shall be referred to the first two examiners from the panel as nominated by the Vice-Chancellor from the panel of names recommended by the Doctoral Committee.
- ii) The Dean (Research) shall take such steps through the Controller of Examinations as deemed necessary to enable the reports of the Examiners to be received as quickly as possible.

The examiners are expected to send, in the prescribed form, their reports within two months from the date of receipt of the thesis.

- iii) The examiner shall include in his / her report an overall assessment, placing the thesis in one of the following categories :
 - a. Recommended for the award of the degree of Doctor of Philosophy: Highly commended / Commended.
 - b. Revision required
 - (i) Revised thesis be resubmitted
 - (ii) Revised thesis need not be resubmitted.
 - c. Rejected
- iv) The examiner shall enclose a report in about 300 words, indicating the standard attained in case (a), the nature of revision in case (b) and the reasons in case (c).
- v) If both the examiners recommended the award of the degree, thesis shall be provisionally accepted. Any minor revision, modification etc., suggested by the examiners shall be carried out before the oral examination is arranged.

The Controller of Examinations will correspond with the external examiners approved by the Vice-Chancellor for evaluation of the thesis report submitted by the Research Scholar.

The format for obtaining the review report from the external examiners shall be framed and sent to the external examiners along with the thesis by the Controller of Examinations.

- vi) If both examiners recommended rejection, the thesis shall be rejected and the registration of the research scholar stands cancelled.
- vii) If one examiner recommends the award of the degree while the other recommends rejection, then the thesis shall be referred to the third examiner as nominated by the Vice-Chancellor from the panel of examiners. If two of three examiners recommended the award, the thesis shall be provisionally accepted. If two of the examiners recommend rejection, the thesis shall be rejected and the registration of the research scholar stands cancelled.
- viii) If any examiner recommends revision of the thesis the candidate shall be permitted only once to revise and resubmit the thesis within 6 months and the revised thesis shall be referred to the same examiner only in the situation such as (i). when the examiner recommends new experiments and major modification involving new methodology and also (ii). the examiner insist the university to send the thesis back to the same examiner after revision for offering his final recommendation on the thesis which should only be either recommended for the award or rejection. In case, the examiner does not insist on sending the thesis back to him, the thesis shall be referred to the Supervisor to ascertain the corrections carried out in the thesis as suggested by the examiners. The Supervisor shall study the report of the examiners & accordingly send consolidated report to the Controller of Examinations. Controller of Examinations, based on the approval of Vice-chancellor shall constitute oral examination board, within a period of two months from the receipt of the reports from the supervisor.
- ix) Individual cases not covered by the above clauses shall be referred to the Vice-Chancellor. On deemed fit reasons, the Vice-Chancellor shall refer to the Board of Research and Consultancy which in turn shall refer to the Board of Management, if necessary.

13. Oral Examination

- i) The Board of viva-voce Examination shall be:
 - a) Chairman to be nominated by VC
 - b) One of the Indian examiners who valued the thesis to be nominated by VC
 - c) Supervisor (Guide)
- ii) The viva-voce examination shall be conducted in this University as "Open Defence Type" examination. The decision of the Board of Examiners shall be final.

The Controller of Examinations shall send the reports from all the examiners to the supervisor for consolidation and compliance. He will also correspond with the examiners appointed by the Vice-Chancellor for oral examination and send the consolidated review reports along with a copy of the thesis.

Two notifications will be sent by the supervisor regarding the oral examination to all the concerned before conducting oral examination.

After 15 days of the first notification the second notification will be sent. The second notification must have the date, time and venue of the oral examination.

All the arrangements for conducting the

| oral examinations in an orderly manner shall be made by the Research Supervisor. |
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| The TA/DA for the examiner shall be paid by the Controller of Examinations. |
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