

COCHIN UNIVERSITY OF SCIENCE AND TECHNOLOGY

Cochin University P.O.
Kochi - 22

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NOTIFICATION

In exercise of the powers conferred by Section 24(ii) read with Section 42(1) of the CUSAT Act, 1986, the Academic Council at its special meeting held on 18.01.2011 made following Regulations regarding admission to and award of the Ph.D Degree of CUSAT, as appended.

The Syndicate at its meeting held on 02.07.2011 vide item 573.13 resolved to approve the above regulations and also to make the Regulations effective from 2010 admissions.



Dr.N.CHANDRAMOHANAKUMAR
REGISTRAR

To

1. Heads of all Teaching Departments/Schools.
2. The Controller of Examinations/Joint Registrar (AC/Exam.)/
Deputy Registrar (Exam.II)/Deputy Registrar [UGC(SC/ST)]/
Assistant Registrar (AC/Confidential Section).
3. Ac.A/Ac.B/Ac.C/Exam.A/Exam.E/UGC (SC/ST) Sections.
4. All Recognised Research Centres.
5. PS to Vice-Chancellor/PS to Pro-Vice-Chancellor/PA to Registrar.
6. Day file/Stock file/ File copy.

REGULATIONS FOR THE AWARD OF Ph.D DEGREE OF THE COCHIN UNIVERSITY OF SCIENCE AND TECHNOLOGY

1. Admission of Students to the Ph.D. Programme

- (i) A candidate who wishes to pursue a programme of study and research leading to the degree of Doctor of Philosophy (Ph.D) of Cochin University of Science and Technology (CUSAT) will be required to seek registration to the programme under these regulations as a Full-Time or Part-Time research student in a University Department/School of study or in an institution recognized for this purpose by the University, under an appropriate Faculty. In the case of recognized institutions, part-time registration shall be granted only for the permanent employees of the respective institutions.
- (ii) Candidates who are working in research projects, relevant to the research topic which have been taken up by a Department/School of the University, funded internally or by external funding agencies, shall be eligible for Full-Time/Part-Time registration. Candidates working in research projects taken up by recognized institutions shall be eligible only for full time registration.
- (iii) Candidates applying for registration as Part-Time students shall be considered for registration only in cases where the Research Committee (see clause 8) is convinced that effective supervision can be ensured.

2. Recognized Institutions

The University may decide to accord recognition, in specified faculties, on the recommendation of the Academic Council, to a Research/Educational Institution under the control of Central/State Government as per the provisions of the Cochin University of Science and Technology Act (1986) and the relevant statutes and ordinances in this regard, provided the University is satisfied that the institution will be able to provide the required facilities to candidates to pursue their studies in the institution for the degree of Doctor of Philosophy of the University in the Faculties concerned and to fulfill such other conditions that the Syndicate may stipulate from time to time.

3. Eligibility for Admission to the Ph.D. Programme

- (i) Candidates seeking registration to the Ph.D. programme shall hold a Master's Degree from a recognized University with a minimum of 55% marks in the qualifying examination, or a minimum CGPA of 6.0 in the 10 point scale (or an equivalent grade in similar scales). A candidate belonging to SC/ST community shall be eligible for concession up to 10% marks in the minimum eligible marks for admission.
- (ii) Candidates seeking registration except those mentioned in Sub-clause(iii) shall have passed the Departmental Admission Test (DAT) and ranked as per the norms laid down in clause 9 of these regulations. . DAT for Ph.D. Programme (including admission to Recognized Institutions) shall be conducted by Departments once in a year in July/August.
- (iii) The following candidates are exempted from DAT:
 - a) Candidates who possess National/Kerala State research fellowships with valid score, with committed financial assistance at the time of seeking admission, in any of the National/State level eligibility tests conducted by the agencies or by industries so recognized by the University for the purpose.
 - b) Candidates who have qualified UGC-NET Lectureship examination or GATE/ICAR/KSCSTE/CSIR/NBHM/ICSSR
 - c) Candidates who have been awarded Fellowships by the Government of India or the Government of Kerala for pursuing doctoral research leading to Ph.D degree.
 - d) Foreign students who have been sponsored under a scholarship scheme by the Government of India for undergoing Ph.D. Programme in India.
 - e) Teachers of Universities/Aided Colleges in Kerala, teachers who are working in Government Institutions/Quasi Government recognized by Cochin University of Science and Technology and Scientists in National Level Research Laboratories, with a minimum continuous service of five years as permanent employees.

These candidates shall be ranked as per the norms laid down in clause 9A of these regulations.

- (iv) Candidates seeking admission under interdisciplinary/multidisciplinary research shall have to qualify in the DAT conducted by the respective Department (in the subject offered by the Department) where he/she wishes to register for research.

4. Procedure to Apply for Admission

- (i) Candidates seeking registration to the doctoral programme as full time or part time students, shall do so by submitting their applications in the prescribed form in response to the notification in this respect issued once a year by the University.
- (ii) Application for admission shall be submitted to the Head of the University Department concerned in the prescribed form on payment of the required fees.
Candidates intending to do research in Recognized Institutions shall submit their applications through the Head of the Institution to the Head of the respective Department of the University.
- (iii) Candidates who are exempted from DAT for possessing research fellowships or scholarships or have qualified in specified National/State level eligibility tests as per sub-clauses (iii)a to (iii)d of Clause 3 above, may be admitted at any time during the academic year on submission of applications in the prescribed form at the time of seeking admission

5. Research Guide

- (i) A teacher of the University or a Scientist/Teacher of a Recognized Institution under the University coming under Clause 2, not below the rank of Assistant Professor in the University or an equivalent position in a Recognized Institution, who has satisfactorily completed his/her probation and holds a Ph.D. Degree, except through Distance Education Programme, and has published at least two research papers in refereed journals, shall be eligible to be recognized as Research Guide.
- (ii) Teachers of CUSAT and Scientists/Teachers of Recognized Institutions who are already functioning as Research Guides in the faculty concerned are ipso facto recognized Research Guides in the faculty concerned.
- (iii) Teachers of CUSAT may continue to supervise the work of students who are already registered with them even after retirement. They are eligible to take fresh students under their supervision, on recommendation of the respective Department Research Committee, and approved by the University. Recognition granted to teachers shall continue to be valid even after their relinquishing University service for taking up employment elsewhere, if the University permits them on the recommendation of the respective Department Research Committee.

- (iv) Recognition granted to Scientists/Teachers of Recognized Institutions coming under Clause (2) will cease to exist as soon as they retire from service, or are transferred outside the State of Kerala, or they take up employment in Institutions or are transferred to institutions which are not recognized by the University. They will not be allowed to supervise fresh research scholars. The students already registered under them shall be allowed to continue research under their guidance.
- (v) An outstanding person with a Ph.D. Degree who has substantially contributed in an area, whose service as Research Guide is considered to be of value to the University, may also be given recognition as Research Guide under an appropriate Faculty on the recommendation of the Research Committee of the Department concerned.
- (vi) A person is eligible to be recognized as Research Guide under more than one Faculty of the University at the same time.

6. Number of Research students with a Research Guide

A Research supervisor shall not have, at any given point of time, more than eight Ph.D. students under his/her supervision.

7. Joint Supervision

- (i) If the Research Committee feels, for valid academic reasons, that the service of an additional guide is desirable it may recommend a joint guide provided both the guides are willing. In this case too for reckoning the maximum number of students who may register under a Research Guide, the students under joint guidance shall be treated as 0.5 for each guide
- (ii) In case of interdisciplinary /multidisciplinary there shall be two Research Guides, one in his own subject and another in the area of subject in which he combines his core subject. For reckoning the maximum number of students who may register under a Research Guide, the students under joint guidance shall be treated as 0.5 for each guide

8. Research Committee

- (i) Every Department of study and research in the University shall have a Research Committee (RC) with the Head of the Department as Chairman, and all the recognized Research Guides of the University serving in the Department as members. The Vice Chancellor may, on the recommendation of the Dean of the Faculty concerned, nominate

- (v) The weightage for written test and interview for ranking will be as follows:
- (a) Marks obtained in the Master's Degree level : 30%
 - (b) Marks obtained in the Written test : 50%
 - (c) Marks obtained in the interview : 20%
- (vi) Separate rank lists shall be prepared for full time and part time students.
- (vii) The admission lists and the waiting list of all eligible candidates shall be displayed on the notice boards of the respective Departments/Recognized Institutions. The rank list shall be valid till December 31st of the year.

9 (A) Selection of candidates exempted from DAT

- (i) The candidate shall appear for an interview before the Research Committee or Sub-committee constituted for this purpose. In case of admission for interdisciplinary/multidisciplinary research the Committee or Sub-committee shall consist of the Research Guide from the other subject who has consented to supervise the candidate.
- (ii) The Committee shall assess the student based on his research proposal and award marks as per his/her performance in the interview. The committee shall also scrutinize the academic records of the candidate, the research proposal submitted by him/her in the application, the long term plan of the academic work to be undertaken by the candidate
- (iii) In case there are more than one candidate at a point of time the rank list shall be prepared following the weightage given below:
- a. Marks obtained in the Master's Degree level : 50%
 - b. Marks obtained in the interview : 50%
- (iv) Separate rank lists shall be prepared for full time/ part time students.

The admission lists and the waiting list of all eligible candidates shall be displayed on the notice boards of the respective Departments/Recognized Institutions. The rank list shall be valid till December 31st of the year.

10. Admission and Registration

- (i) A candidate who has been ranked and recommended for admission shall take admission in the Department/Recognized Institution within fifteen days from the date of issue of Memo after paying the required fees in the Department/University Office and fulfilling such other requirements as per the admission rules.
- (ii) The Head of the Department/ Recognized Institution shall be empowered to give an extension of time for a further period up to three months to the candidate, if so requested by the candidate and recommended by the research guide.
- (iii) The Head of the Department/Recognized Institution shall forward to the University a consolidated list of all those who are admitted to the Ph.D. Programme.
- (iv) The University shall allot registration numbers to students admitted for the Doctoral Programme with effect from the date on which he/she was admitted to the Department/Recognized Institution concerned.
- (v) The time table for the admission and registration process will be as decided by the University from time to time.

11. Doctoral Committee

- (i) There shall be a Doctoral Committee (DC) to monitor the progress of each student registered for research in the University Department/ Recognized Institution.
- (ii) In the case of a University Department, the Head of the Department concerned in consultation with the Research Guide shall constitute the Doctoral Committee with the Research Guide as Convenor, the Joint Guide, if any, and an approved Research Guide from the same or allied area in the University as members.
- (iii) In the case of a Recognized Institution, the Head of the Recognized Institution in consultation with the Research Guide shall constitute the Doctoral Committee with the Research Guide as Convenor, the Joint Guide, if any, and an approved Research Guide from the same or allied area in the University and the Head of the Institution as members.

- (iv) The Doctoral Committee shall be in existence during the full period of registration of a candidate and shall be reconstituted with such changes in membership as may become necessary from time to time in accordance with *clause (ii) & (iii)* above.
- (v) The Doctoral Committee shall provide necessary assistance to the research student to ensure that good progress is made by him/her.
- (vi) All research students shall submit progress reports to the respective Research Guides every six months which shall be discussed in the Doctoral Committees to assess the progress of the work.
- (vii) The Doctoral Committee shall prepare syllabi and panel of question paper setters/ examiners for the course work.
- (viii) The Doctoral Committee shall make recommendations on matters such as (a) the conversion of registration from full-time to part-time or vice versa, (b) granting leave of the candidate for short term assignments, training etc, and (c) cancellation of registration in case of unsatisfactory progress, unethical practices in research committed by the student, or misconduct of the student.
- (ix) The Doctoral Committee shall be responsible for the preparation of the panel of adjudicators (see clause 21 (iv)) for the evaluation of the thesis.

12. Payment of Fees

- (i) Every research student shall be required to pay, in time, the fees prescribed by the University, failing which his/her name shall stand removed from the rolls if the default is more than 30 days after the due date.
- (ii) Within a period of 30 days from the date of removal from the rolls, the candidate may be readmitted by the Head of the Department/Research Institution on an application made by the candidate, duly recommended by the Research Guide and on payment of all arrears of fees, readmission fee and the fine as the University may prescribe from time to time.
- (iii) In cases where the default in payment of fees exceeds 30 days and candidate fails to apply for readmission within the next 30 days he/she will be required to apply for readmission within 180 days, which shall be placed for consideration before the Research Committee. If the Research Committee is satisfied with the genuineness of the causes of delay, it shall be competent to take appropriate decision. A candidate who is in default of

fees for more than 180 days from the due date, the registration shall remain cancelled.

- (iv) Every research student shall submit a report of the progress of the research achieved and attendance certificate countersigned by the guide and HOD/Head of the Institution during the previous semester before the payment of the next semester fees.

13. Attendance

- (i) Notwithstanding anything contained in these regulations a candidate who comes under the National/State or such other fellowship or scheme/project etc., shall be governed by the respective rules governing the award of such fellowship/scheme/project, regarding attendance, leave etc.
- (ii) A student registered as full-time research student will be required to have at least 80% attendance in every semester failing which his/her name shall be removed from the rolls of the University subject to the provisions under sub clauses (iii), (iv), (v) and (vi) below.
- (iii) The Research Committee shall be empowered to condone the shortage of attendance upto 10 % on an application made by the student, duly recommended by the Research Guide and endorsed by the Doctoral Committee.
- (iv) A Research student will be eligible to attend conferences/ seminars/ symposia specialized training programmes connected with his/her area of research or participate in research cruises or visit other places for collecting data, and such days when they were away from the Department or Recognized Institution, including days of travel, shall count for attendance or for periods of being in residence at the University, if they have been duly authorized to do so by the Research Guide with intimation to the Head of the Department.
- (v) Notwithstanding anything contained in the regulations regarding attendance, a candidate registered for full-time research shall be eligible to avail of leave for thirty days in one calendar year and maternity leave as per University rules, along with leave without fellowship for three months on medical grounds or for any other genuine reasons with the consent of the Research Guide.
- (vi) Part-time research scholars should complete successfully the course work within a maximum period of two years of registration. In the remaining period of research, minimum 60 days attendance is necessary each year.

14. Course Work

- (i) After having been admitted, each Ph.D. student shall be required to under take course work on a full time basis for a minimum period of one semester.

The course work shall be treated as pre-Ph.D. preparation. The structure of the course work shall be as follows:

Title of the course	Credits	Marks		Total
		Continuous Evaluation	End Semester Examination	
I	5	50	50	100
II	5	50	50	100
III	5	50	50	100
IV	5	--	100	100

The details of course shall be as follows:

- Course I : General course comprising of the broad area of research
- Course II : Topics specific to the core field of research
- Course III : Research Methodology including Quantitative Methods and Computer Applications.
- Course IV : Review of literature on the topic of research. and Research Proposal Defence.

- (ii) Ph.D. students with M.Phil degree, awarded complying with the UGC Regulations for awarding M.Phil/Ph.D 2009 in the same field of study from CUSAT or any other University, may be exempted from registering for Course I and Course III of the course work, if the Research Committee is satisfied that the same or similar courses have been undergone by the students in the M.Phil programme. In such cases, the credits of the M.Phil courses can be transferred to the Ph.D. course work.
- (ii) A. The Syllabi and titles for course I and II shall be prepared by the respective Doctoral Committee of the student and be approved by the Research Committee. The syllabus and title for Course III shall be formulated by the Research Committee. For Course IV, the Doctoral Committee shall guide/supervise and monitor the progress of the student periodically.
- (iii) Continuous evaluation shall be done by the teachers offering the courses. Setting of the question papers and their evaluation for end-semester examination (except course IV) shall be carried out by a Board of Examiners nominated by the Research Committee. For course IV, at the end of the semester, the student shall submit a report on the scope, relevance and purpose of the research work, its identified objectives, review of literature, research methodologies to be followed and expected outcome of the thesis work. The evaluation of Course IV shall be done by the Research

Committee or a subcommittee nominated by the Research Committee at the end of the semester, through an open seminar.

- (iv) Based on the marks obtained in the examinations the students may be awarded grades as detailed below:

Range of Marks	Grades	Weightage
90% and above	S - Outstanding	10
(80-89)	A- Excellent	9
(70-79)	B- Very Good	8
(60-69)	C- Good	7
(50-59)	D- Satisfactory	6
Below 50%	F- Failed	0

Overall performance at the end of the semester will be indicated by Grade Point Average (GPA) calculated as follows:

$$\text{GPA} = \frac{G_1C_1 + G_2C_2 + G_3C_3 + \dots + G_nC_n}{C_1 + C_2 + C_3 + \dots + C_n}$$

where 'G' refers to the grade weightage and 'C' refers to the credit value of corresponding course undergone by the student.

- (v) Students who are not able to acquire a minimum grade of 6.0 in any Course shall be given one more chance to complete the course work successfully. If he/she cannot acquire the required 20 credits within a period 24 months from the date of his/her PhD registration, his/her registration will be cancelled.
- (vi) If found necessary, Course work approved by the Doctoral Committee may be carried out by the doctoral candidates in sister departments in the University/Institutions recognized by the University as Centers of research.
- (vii) The Research Committee will scrutinize the grades awarded to the candidate in each course, and finalize the results. On successful completion of the course work by acquiring 20 credits, the candidate shall be given a certificate of eligibility for continuing doctoral research (both the Grade Cards and certificate of eligibility will be issued by the Chairman of Research Committee).

15. Publication of Research Paper

Every candidate shall be required to publish at least one research paper in a refereed journal before submitting the thesis. . A copy of the research paper or a letter of acceptance from the editor of the journal with a copy of the manuscript has to be submitted at the time of submission of synopsis of the thesis as given in Clause 21 (v) c .

16. Change of Research Guide

- (i) The Research Committee shall have the power to consider the request of a candidate to change his/her Guide or to have a Joint Guide provided that the request is supported by his/her guide and the prospective Joint Guide, and the request is recommended by the Doctoral Committee. If the Research Committee gives assent to the request, the matter shall be reported to the University.
- (ii) However, such request for change of Guide or Joint Guide shall be made at least six months prior to the candidate's giving notice for submission of the thesis for adjudication by examiners, provided however that, this limitation shall not be applicable in the case where the present guide is unable to continue supervision due to reasons of health, shifting of place of work/residence to a distant place etc.

17. Change of Centre of Research

The Research Committee shall have the power to consider and to give assent to the request of the candidate for change of Centre of Research, provided the request is recommended by the Research Guide and the Doctoral Committee and is accompanied by a 'no objection certificate' from the Head of the present and newly proposed recognized Centre of Research. Such instances of change in the Centre of Research shall be reported to the University immediately.

18. Change of Area of Research

- (i) A candidate who is registered for research shall be eligible to apply for the change of the topic or the area of research on payment of the prescribed fee and the Research Committee shall be competent to give assent to the request, which has been duly supported by the Research Guide and the Doctoral Committee and the University shall be informed accordingly. However, such an application for change of topic / the area of research shall be permitted only once during the period of registration, and further that the application for the same shall be made at least one year prior to the notice for submission of thesis.

- (ii) A candidate who is registered as a research student shall be eligible to request for approval or a change in the title of his/her thesis and the Doctoral Committee shall be competent to give assent to the request, provided that in the case of change in the title of research, the request shall be made at least one month prior to the submission of thesis.

19. Conversion of Registration from Full-Time to Part-Time

- (i) A candidate who is registered for the Ph.D. Programme shall be eligible to apply for conversion of research work from full-time to part-time and vice versa. The Research Committee shall be empowered to grant the request, which is duly recommended by the research guide, and endorsed by the Doctoral Committee. In such cases the matter shall be reported to the University for confirmation. In such conversion, the maximum period of registration will be as in the case of Part-time students.
- (ii) Conversion from part-time to full-time or vice versa will be allowed only twice during the period of registration.

20. Period of Registration of Research Students

- (i) A candidate who is registered for the Ph.D. Degree as full-time student and has completed the course requirements shall be eligible to submit his/her thesis for adjudication, on completion of two years of registration. In the case of part-time students the minimum period of registration shall be three years.
- (ii) A candidate who is registered as a fulltime research student shall remain on the rolls of the University for a maximum period of six years provided that he/she satisfies the periodic progress and the dues are cleared as per rules. The Research Committee shall be competent to extend the period of registration for one more year at the recommendation of the Doctoral Committee and the Research Guide provided that the candidate has made satisfactory progress and the application for extension is made after paying the prescribed fee. However, the application should be submitted before the expiry of the registration period.
- (iii) A candidate who is registered as a part-time research student shall normally remain on the rolls of the University for a maximum period of seven years after which his/her registration will lapse. The Research Committee shall be competent to extend the period of registration for one more year on the recommendation of the Doctoral Committee provided that the candidate has made satisfactory progress, and the application for extension is made after paying the prescribed fee before the expiry of the registration.

- (iv) A candidate shall cease to be on the rolls of the University as research student as soon as his/her Open Defence is over, or from the date on which his/her registration is cancelled or lapses for other reasons.

21. Submission of the Thesis for Ph.D. Degree

- (i) Every candidate for the award of the degree of Doctor of Philosophy shall be required to submit a thesis embodying the results of his/her research findings to the University for adjudication by examiners.
- (ii) The thesis shall be written in English, except the case of theses from the Faculty of Humanities where the language of the thesis shall be in the language of study and should conform to the format and standard prescribed by the University from time to time.
- (iii) The candidate shall submit five copies of the synopsis prepared in the language proposed to be used in the thesis, and conforming to the specification prescribed by the University along with a CD containing soft copy of the Synopsis in PDF format at least one month before the submission of the thesis.
- (iv) The panel of experts prepared by the Doctoral Committee shall be forwarded to the University through the concerned Head of the Department. In the case of recognized institutions, panel of experts prepared by the Doctoral Committee shall be submitted to the University by the concerned Head of Institution forwarded through the Dean of the Faculty concerned. The panel should contain names of at least ten experts not below the rank of an Associate Professor of a University or an equivalent rank in a reputed research institution. At least five experts of this panel should be from outside the State/Country.
- (v) A candidate proposing to submit the thesis shall inform the University, at least one month in advance and such intimation shall be accompanied by a certificate from the Head of the Department that he/she has presented the salient features of the proposed thesis in a pre-submission Seminar in the Department. The request shall be accompanied by:
 - a. Synopsis as described in 21(iii).
 - b. Copy of the Grade cards in respect of the Ph.D. course work.
 - c. Copy of at least one published research paper/letter of acceptance with copy of the manuscript along with a certificate from the Doctoral Committee to the effect that the paper is published in a refereed journal.

- d. Attendance certificate.
 - e. A certificate from the Head of Department/Recognized Institution stating that the candidate has presented his/her pre-submission synopsis seminar.
 - f. Recommendation of the research guide to the effect that the work of the candidate is adequate and complete for the award of the Ph.D. degree.
 - g. Evidence of having paid the required fees prescribed by the University.
- (vi) The candidate shall submit the thesis after the expiry of one month from the date of notice, but within a period of six months. The delay in submitting the thesis beyond six months, but within one year may be condoned by the Research Committee on the recommendation of the Doctoral Committee. The Vice Chancellor may condone delay for a further period of six months in exceptional cases, provided further that the candidate shall submit his/her thesis only during the currency of his/her registration.
- (vii) The candidate shall submit to the University five copies of the thesis, printed or typed clearly in the format prescribed by the Faculty concerned along with a CD containing soft copy of the thesis in PDF format. One hard copy shall be deposited with the Head of the Department for display in the Department/Recognized Research Institution one week preceding the Open Defence.
- (viii) A thesis shall be accompanied by the following:
- a. A declaration signed by the candidate to the effect that the thesis is the outcome of the original work done by the candidate, and that the work did not form part of any dissertation submitted for the award of any degree, diploma, associateship, or any other title or recognition from any University/ Institution.
 - b. A certificate by the research guide(s) to the effect that to the best of his/her/their knowledge the thesis is a bonafide record of research carried out by the candidate under his/her/their supervision.
 - c. A certificate from the Research Guide to the effect that all the relevant corrections and modifications suggested by the audience during the pre-synopsis Seminar and recommended by the Doctoral Committee of the candidate has been incorporated in the thesis.
 - d. An appendix containing research articles published by him/her alone or jointly with others in the same area of study as additional evidence of the research work done by the candidate.

22. Procedure for Adjudication of the Thesis

- (i) The thesis to be adjudicated shall be forwarded to three external examiners nominated by the Vice-Chancellor from the panel of experts (as given in Clause 21 (iv) above), of which at least two shall be from outside the State/Country.
- (ii) (a) Each examiner shall be requested to send a separate individual report on adjudication of the thesis, wherein it shall be specifically stated, whether or not the examiner recommends the award of the degree based on the written thesis, with reasons for the recommendation. If the thesis does not meet the standard expected of a Ph.D. thesis, the thesis may be rejected.
- (b) In the event of the receipt of the evaluation reports of any two examiners recommending the thesis for the award of Ph.D. Degree, the University shall make arrangements for the conduct of the open defence and viva voce examination as given in Clause 22 (iii) below without waiting for the third report.

In the event of one examiner recommending the thesis for the award of Ph.D. Degree and the other examiner rejecting it, the report of the third examiner will also be considered. If the third examiner recommends the award, open defence and viva voce examination shall be conducted. If the third examiner rejects the thesis, the Ph.D. degree will not be awarded to the candidate.

- (c) But if any of the examiners suggests resubmission of the thesis, after revision, the candidate may resubmit the thesis incorporating the changes proposed by the examiner(s) after a period of six months and on payment of such fees as may be prescribed by the University.

On resubmission, the thesis shall again be sent for adjudication as far as possible to the same examiner(s) who had adjudicated it earlier and recommended revision. If the same examiner(s) is (are) not available, another examiner(s) shall be selected by the Vice Chancellor from the same panel.

- (d) The candidate shall have no further chance for resubmission of the thesis and the decision to accept or reject the thesis at this stage shall be final.
- (iii) If any two examiners recommend for the award of the Ph.D. Degree, the University shall make arrangements for the conduct of open defence and a viva voce examination. The open defence/viva voce board shall consist of the Dean of the Faculty under which the candidate is registered, as Chairman and any one of the examiners nominated by the Vice

Chancellor, from the panel of examiners prepared for the adjudication of the thesis, the Research Guide and Joint Guide, if any, as members.

- (iv) An open defence and viva voce examination shall be held at a place and time decided by the University after making prior announcement of the same, and after issuing the notice to all the Departments of the University/Recognized Institutions coming under the faculty, sufficiently in advance.
- (v) During the Open Defence of the thesis, the candidate has to explain the motivation and relevance of the work, innovation in methodology and salient features of the findings. He/She shall satisfactorily answer the questions put forward by the audience. This shall be followed/preceded by an in camera viva voce examination conducted by the viva voce board.
- (vi) The Chairman (Dean of the Faculty) and the external expert shall necessarily be present at the Open Defence/viva voce examination.
- (vii) If the viva voce examination is not held on the scheduled date, the candidate shall be required to be present for the open defence and viva voce examination on a subsequent date, as intimated to him/her.
- (viii) If, in the opinion of the viva voce board, the candidate is successful in the viva voce examination and has defended his/her thesis satisfactorily in the open defence, the board shall prepare a consolidated report and present it to the University recommending the award of the Degree. The candidate shall submit the hard bound copy of the thesis along with a soft copy in PDF format after incorporating all corrections/suggestions made by the examiners. The supervising teacher shall give a certificate stating that all corrections have been made in the final copy of the thesis.
- (ix) If, in the opinion of the viva voce board, the candidate is not successful in the viva voce examination the candidate shall be given an additional opportunity after one month for the viva voce/open defence after payment of the prescribed fee, and the decision of viva voce board at this examination shall be final.
- (x) The award of Ph.D. Degree will be with effect from the date of successful completion of viva voce examination as noted by the consolidated report of the Board of Examiners. The Certificate from the University will be issued only after the receipt of the final modified (if necessary) thesis copy CD and Supervisor's certificate as given in Clause 22. On the successful completion of the viva-voce examination a notification shall be issued which shall contain the Name of the Candidate, Name(s) of the Guide(s), Title of Thesis, Subject and Faculty under which the Degree is awarded.

- (xi) The University shall issue a provisional certificate to the candidate to the effect that he/she has successfully fulfilled all the requirements including course work for the award of the Ph D degree in accordance with the UGC guidelines.

23. Publication of the Thesis

A candidate who has been awarded the Degree of Doctor of Philosophy shall be free to publish his/her thesis with a proper acknowledgement to the University. . A copy of the thesis so published shall be given by the candidate to the University.

24. Transitory Provisions

- (i) The present regulations shall supercede all earlier regulations in the matter, and all registrations of candidates from the academic year 2010-'11 onwards, for the degree of Ph.D. shall be made under these regulations.
- (ii) A student registered under the earlier regulations shall be eligible to opt to come under these regulations, but such option shall be exercised within a period of six months from the date of notification of these regulations.

NOTE:

1. "University", means "Cochin University of Science and Technology
2. "Department" means "Department/School" of the University as the case may be.