

Contents

CENTURION UNIVERSITY OF TECHNOLOGY AND MANAGEMENT (CUTM), ANDHRA PRADESH

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**CENTURION UNIVERSITY OF TECHNOLOGY AND MANAGEMENT (CUTM),
ANDHRA PRADESH**

REGULATIONS FOR HIGHER DEGREES BY RESEARCH

Doctor of Philosophy (PhD)

1. INTRODUCTION

The information presented here pertains to the Doctor of Philosophy (PhD) programme of Centurion University of Technology and Management, Andhra Pradesh. We hope that these regulations are as accessible and user-friendly as we can make them. The PhD degree is the most coveted degree of the University. The quality of the degree is of utmost importance as it reflects the prestige of the University while contributing towards creating an ambience of innovation through research. In the process, it also provides a platform for the teachers to enhance their faculty of original thinking, apart from enabling them to acquire an important academic qualification. In order to maintain the standard of PhD degree at a high level, it is necessary that a transparent procedure is followed.

The University offers PhD Programme in a wide range of areas in **Engineering, Science and Management**. The main point of contact in relation to academic matters for Higher Degrees by research is the relevant School. Candidates should make sure that they are acquainted with the Regulations for Higher Degrees and the key staff in their Faculty responsible for the academic management of Higher Degrees.

CUTM will strive to nurture and enhance the development of a research culture whose objectives are:

- I. To facilitate the development of enhanced research training environment that focuses on the needs of candidates.
- II. To provide human resources/ infrastructure and programme support required for the successful completion of high-quality research within the stipulated time limit.

CUTM will strive to provide scholars with appropriate as well as timely information and advice at all stages of their research. Appropriate opportunities will be identified for scholars to engage in productive and intellectual activities, so that they can pursue their research programmes in a truly stimulating environment which will enhance their skill set and abilities.

2. AUTHORITY

Centurion University of Technology and Management, Andhra Pradesh is the final authority to award PhD Degree to the students who have successfully completed the programme of study as outlined in these regulations.

The University will also be the final authority in awarding Honorary Degrees, Doctor of Literature (DLitt) and Doctorate by Publication. The Director Quality Assurance Cell and Controller of Examinations will be overall in charge of coordinating the examination process for Ph.D. Degree.

2.1 Constitution of Committees

- I. **Research Advisory Committee (RAC)** - is to be headed by Vice Chancellor (VC). The members of the Committee are Dean Academic, one External Member and two seniors most faculty members of the University. The Chair (VC) will convene the meeting whenever required. The VC is free to choose any other expert as per the requirement.
- II. **Research Committee (RC)** – The Vice Chancellor of the University is the Chair, Dean Academic, Dean Basic Sciences, Academic Administration of all Schools and Research Coordinators are the members of the committee.
- III. **Doctoral Scrutiny Committee (DSC)** - For every student, there is a DSC comprising three members including the supervisor. They are i) External Experts, ii) Internal Experts or HOD (those have Ph.D. degree).

2.2 Research Advisory Committee (RAC)

It is an apex body of the University. The Vice Chancellor will be the chair along with other members. The members of the committee are **Dean Academic, one External Member and two seniors most faculty members** of the University selected by the Vice Chancellor.

Two Committees of the University will guide matters relating to the Higher Degree by Research, the **Research Committee (RC)** and the **Doctoral Scrutiny Committee (DSC)**. These two committees will be responsible for overall quality assurance and improvement to ensure that the University is providing PhD students productive experience so that they complete their degree successfully and in a timely manner. They are also responsible for coordinating and monitoring the examination process and recommending the degree. A team of relevant functionaries of the University will from time to time re-visit policy guidelines pertaining to the Higher Degree Programmes and amend it if required. The regulations/ policy guidelines have to be approved for implementation by the Academic Council of the University.

2.3 Research Committee (RC)

The Research Committee (RC) of the University is the highest body to coordinate the Doctoral Programme. The RC will look after the areas that fall within its purview. The Dean Academic shall be the Chairman of the Committee. Besides the Chairman, the committee will consist of four other members (preferably in the rank of Professor/ Associate Professor), to be nominated by the Vice-Chancellor.

2.3.1 Role and Functions of RC

The main role of RC is to encourage and ensure quality PhD activities. The broad functions of RC are as follows:

- a) To approve the name of a prospective Supervisor (internal/ external) for a Candidate based on the bio-data and the Research Proposal submitted.
- b) To approve the composition of the Doctoral Scrutiny Committee (DSC) for each candidate.
- c) To review the progress of the PhD Programme based on the progress reports submitted by Doctoral Scrutiny Committee (DSC) of a candidate.
- d) To approve the submission of PhD thesis and the list of examiners for a student.
- e) To interpret and give effect to the Regulations regarding the award of PhD Degree.
- f) To deal with complaints submitted by a PhD student, Supervisor(s)/ DSC member(s).

2.4. Doctoral Scrutiny Committee (DSC)

For each scholar, there shall be a Doctoral Scrutiny Committee (DSC), the main role of which is to ensure that the scholar is engaged in an appropriate research work, makes good progress and at the end prepares a quality thesis.

The Chairman of DSC shall be nominated by the Chairman of the RC from amongst the members of the committee (other than the Supervisor(s)). The other members will be the Supervisor(s) of the scholar, two faculty members from the same discipline known to be working in similar areas from CUTM / other Universities, nominated by the Chairman of the RC and two members from different disciplines but in a broadly related field, nominated by the Chairman of respective RC.

2.4.1 Role and Functions of DSC

- a) To conduct a Registration Seminar of the candidate to examine the suitability of the candidate for registration.
- b) To decide on the course work for the PhD student.
- c) To decide the place of research for a student.
- d) To hold periodic presentation meetings for scholars and monitor their progress.
- e) To hold the Synopsis Submission Seminar for scholars and approve the submission of the PhD thesis.
- f) To recommend the list of examiners to the Chairman RC for approval.
- g) To analyse, the examiners' reports and either recommend re-submission, rejection or fix the date for Oral Defense Examination.
- h) To conduct the Oral Defense Examination and make appropriate recommendation.

3. ELIGIBILITY

Candidates with following qualifications are eligible for admission to PhD programme.

a) Engineering / Technology:

First class or equivalent marks / grades in Master's degree in Engineering / Technology in the relevant branch.

b) Management Studies:

First class or equivalent marks / grades in Master's degree in management.

c) Sciences:

First class or equivalent marks or grades in Master's degree in Sciences with valid GATE/ NET/ UGC/ CSIR scores.

d) A relaxation of 5% marks, or an equivalent relaxation of grade will be allowed for those belonging to SC/ ST/ OBC (non-creamy layer)/ differently-abled.

Above requirements may be relaxed in the following cases, provided they have proven research records established through publication or otherwise:

- (i) Faculty members of constituent campuses or any other institute of repute.
- (ii) Candidates working with domain specific organizations (e.g. CAs working in CA Firms)
- (iii) Candidates working in sponsored projects in constituent and affiliated colleges if the project duration is not less than three years.
- (iv) Candidates working in National laboratories, R&D Institutions of the Central/ State Government and R&D Laboratories of reputed Industries in permanent positions.
- (v) Candidates having long years of professional experience and exhibiting research aptitude may also be admitted to the Programme. The minimum required percentage of marks or CGPA may be relaxed for such candidates.
- (vi) Research Council may approve candidates having M. Phil Degree in the relevant subject.
- (vii) The selection will be made on the basis of overall academic career and performance in the test/seminar/interview.

3.1 CATEGORIES OF Ph.D. CANDIDATES

There are two categories of Ph.D. candidates. The University reserves all rights to assign candidates to either category.

(i) Full Time candidates:

All candidates who pursue full time research in CUTM shall belong to this category and university may pay a stipend depending on the performance of the scholar. The candidate will

attend University on all days like any faculty member. The University would encourage students who have qualified for a national or any other scholarship to apply. They are required to meet the milestones for full time students. The milestones include, for example, timelines for completion of different stages of the research design, Annual Reviews, Doctoral colloquiums, and Pre-talks. Students will also have to present their work to staff and/or group seminars, FDPs, and practice oral presentations, which will be facilitated by their supervisors and the Ph.D. coordinators. They may be assigned to teach a course for undergraduate or postgraduate students.

(ii) Part Time candidates:

All candidates working in Industrial units, Colleges, Government Departments, Research Organizations or other Institutions, sponsored for pursuing Ph.D. Programmes in CUTM while continuing to serve in their respective Institutions/ organizations will be considered as part time candidates. They shall pursue research in their place of employment and/ or in CUTM and may be able to devote limited time to their PhD (two days a week). Part time students will have the same requirements as full-time students, but the timelines may be staggered to meet the various demands on their time.

4. ADMISSION PROCEDURE

4.1 Invitation for Application

The candidates desirous of pursuing Ph.D. degree shall submit the application in the prescribed form with the Current CV and two pages write up on the proposed area of research wherever applicable, before 30th June / 31st December (summer and winter session), each year to the Research Cell. The application form and the necessary details are available in CUTM website. The application should be supported with a 'Statement of Purpose', which should contain the objective, definition of the problem, proposed methodology and justification. The Application Form must be filled up online and an application fee of Rs. 2000/- (Rupees Two Thousand only) must be paid online (in the eventuality of this not being possible a DD drawn in favor of Centurion University of Technology and Management, Andhra Pradesh, payable at any nationalized bank must be submitted). For interdisciplinary research, the statement of purpose should also contain information of the disciplines involved. The same will be discussed by the members of the DSC for its scope and viability from scientific and logistic point of view, in which the major part of the research work needs to be carried out. A decision will be taken as to which discipline the candidate will be registered under.

4.2 Scrutiny of Application Forms

The applications received by the Admissions Office (Research Cell) shall be scrutinized by a **Research** Committee consisting of various Faculties or representatives nominated by them.

4.3. Rejection of Candidature

CUTM reserves the right to reject a candidature if:

- a) They do not have the appropriate level of qualifications.
- b) There is clear evidence that the capacity to complete a research degree programme is not present.
- c) The appropriate supervisory capacity does not exist, that is, no applicant will be offered a place unless an appropriate supervisor is identified.

4.4 Selection Procedure

The Research Committee shall admit candidates by a two-stage process:

- a) An Entrance Test shall be conducted and a candidate has to qualify with 50% marks. The Entrance Test shall consist of 50% of research methodology and 50% shall be subject specific. The Entrance Test shall be conducted at the Centre(s) notified in advance.
- b) An interview/ viva-voce to be organized by the DRC when the candidates are required to discuss their research interest/ area through a presentation. The interview/ viva voce shall also consider the following aspects, viz. whether:
 - i. the candidate possesses the competence for the proposed research;
 - ii. the research work can be suitably undertaken at the Institution/ College;
 - iii. the proposed area of research can contribute to new/ additional knowledge.
- c) The allocation of Research Supervisor for a selected research scholar shall be decided by the Research Committee concerned depending on the number of scholars per Research Supervisor, the available specialization among the Supervisors and research interests of the scholars as indicated by them at the time of interview/ viva voce.
- d) The respective DRC will forward the list of selected candidates along with the applications of all the candidates to the Vice-Chancellor for the provisional registration of the selected candidates.
- e) The Candidates whose registration has been approved by the Vice Chancellor shall be provisionally admitted to the Ph.D. Programme by the Academic administration (Research)

with intimation to the concerned Faculty, supervisor, the candidate, and the sponsoring institution, if any.

- f) Every candidate, admitted to the programme, will be allotted a Registration Number, which should be quoted in all correspondence. The candidate will be enrolled in the University and must re-enroll each calendar year paying the requisite fee, until the thesis has been submitted for examination.
- g) The candidature will be deemed to have lapsed, if the candidate does not re-enroll before the cut-off date (30th June or 30th December, depending on the enrolment). Although the registration is valid for the entire period of 3 years (and beyond should the candidate seek an extension), the candidate has to re-enroll every year until the thesis has been submitted for examination. It is the responsibility of the University to ensure that confirmation of candidature/ programme of study approval takes place in a timely and effective way.

5. DOCTORAL COMMITTEE AND ITS FUNCTIONS

The following members shall constitute the Doctoral Committee as approved by the Vice Chancellor.

- a) The Academic Administrator of Research (Convener)
- b) The Supervisors
- c) Two external experts selected by the Research Committee of the respective faculty from a panel of six experts recommended by the Supervisors from the academia/ Industries/ R&D organizations.
- d) An expert in the allied areas of research from CUTM, if required.
 - This Committee shall have the following responsibilities:
 - I. To review the research proposal and finalize the topic of research.
 - II. To guide the research scholar to develop the study design and methodology of research and identify the course(s) that he/ she may have to do.
 - III. To periodically review and assist in the progress of the research work of the research scholar.

5.1 Allocation of Supervisors

- I. The allocation of Research Supervisor for a selected research scholar shall be decided by the Research Committee concerned depending on the number of scholars per Research Supervisor, the available specialization among the Supervisors and research interests of the scholars as indicated by them at the time of interview/ viva voce.
- II. A Research Supervisor/ Co-supervisor who is a **Professor**, at any given point of time, cannot supervise more than three (3) M.Phil. and Eight (8) Ph.D. scholars. An **Associate Professor** as Research Supervisor can supervise up to a maximum of two (2) M.Phil. and six (6) Ph.D.

scholars and an **Assistant Professor** as can supervise up to a maximum of two (2) M.Phil. and four (4) Ph.D. scholars.

- III. If the supervisor leaves CUTM, he/she may be permitted to continue as a supervisor for his/her students depending upon the availability of the individual, subject to the approval of the Vice Chancellor. Otherwise, a new supervisor belonging to the same faculty of CUTM, officially nominated by the Research Committee of the Department will be appointed as the Supervisor after obtaining necessary approval from the Vice Chancellor.
- IV. In case of relocation of a Ph.D. woman scholar due to marriage or otherwise, the research data shall be allowed to be transferred to the University to which the scholar intends to relocate provided all the other conditions in these regulations are followed in letter and spirit and the research work does not pertain to the project secured by the parent institution/supervisor from any funding agency. The scholar will however give due credit to the parent supervisor and the institution for the part of research already done.

5.2 Eligibility criteria for Supervisors

- a) Any regular Professor of the University with at least five research publications in peer reviewed refereed journals and any regular Associate / Assistant Professor of the university with a Ph.D. degree and at least three research publications in refereed peer reviewed journals may be recognized as Research Supervisor.

Provided that in areas/ disciplines where there is no or only a limited number of refereed journals, the University relax the above condition for recognition of a person as Research Supervisor with reasons recorded in writing.

- b) Only a full-time regular teacher of the University can act as a supervisor. External Co-Supervisor can be allowed in inter-disciplinary areas from other departments of the same institute or from other related institutions with the approval of the Research Advisory Committee. The Research Advisory Committee can allow industry experts as co-supervisors, those having Doctoral degree.
- c) The allocation of Research Supervisor for a selected research scholar shall be decided by the Department concerned depending on the number of scholars per Research Supervisor, the available specialization among the Supervisors and research interests of the scholars as indicated by them at the time of interview/ viva voce.

5.3 Responsibilities of the Supervisor

The responsibilities of the Supervisor are to advise the candidate in the conduct of their research programme (that is how best to develop and enhance their research knowledge and

research generic skills) and develop the candidate's capacity for independent research and scholarship. Further, the supervisor must advise the candidate as appropriate in negotiating the requirements for programme approval and submission. Few specific responsibilities along their course of action are as follows:

1. ***To provide a framework within which the academic work can take place by:***
 - a) Setting up a regular schedule of meetings with students (not less than one per month) to allow for regular interaction and information flow;
 - b) reaching agreement with students on indicators of progress being made and dates for submission of interim and final reports; and
 - c) Providing regular and prompt feedback on progress to students (including written feedback on written work within two weeks unless the written work is extensive).
2. ***To provide academic guidance by:***
 - a. Providing scholarly direction;
 - b. Encouraging students in their academic work;
 - c. Ensuring that appropriate timetables for the completion of each phase of the work are established;
 - d. Ensuring that students are given timely advice about style requirements and
 - e. About the mechanics of presenting a thesis,
 - f. Ensuring compliance with any legal, professional, ethical or safety guidelines associated with the project;
 - g. Identifying and helping students acquire any missing skills for their research.
3. ***To act as assessor by:***
 - a) Assessing the quality of a student in order to permit provisional registration;
 - b) Assessing students' skills before the end of provisional registration and ensure that any gaps are filled;
 - c) Providing written reports to students at six-monthly intervals
 - d) Ensuring that students are made aware of inadequate progress or inadequate work and suggesting ways of addressing such problems; and
 - e) Guiding students' work in the light of likely expectations on the part of examiners.
4. ***To facilitate administrative compliance by:***
 - a. Being knowledgeable about and helping students comply with all statutes and policies and other regulations and guidelines governing the administration of the degree (e.g. suspension, study overseas, change of status, selection of examiners, examination procedures, etc.);
 - b. Organizing the presentation of six-monthly reports; and
 - c. Aiding with applications to the Research committees.
5. ***To act as a guide to University facilities by:***

- a) Encouraging students to take part in the life of the school by attendance at social and academic functions, etc;
- b) Being aware of and, when necessary, referring students to guidance and support facilities within the University; and
- c) Encouraging students to seek appropriate financial support for their project from University sources.

6. *To guide the student into wider contacts as appropriate to the discipline by:*

- a. Encouraging seminar and conference presentations;
- b. Helping students make contact with other scholars in the field; and
- c. Helping students publish their work as appropriate.

6. COURSE WORK

A student has to complete course work of six months (one semester) duration of which the components of Research Methodology will be compulsory. The first year is considered as a pre-registration year. This will enable a student to opt for an exit path if they wish and ensure quality research outcomes for the University. Course work syllabuses, list of experts and question papers have to come from the supervisors.

- 1. The Ph. D. scholars admitted to CUTM, as part of fulfillment for the Ph.D. degree are required to get qualified in two subjects (Paper I and Paper II, in addition to Research Methodology subject). While scholars belonging to Science and Engineering will appear a written examination conducted annually by the University Examination section, the scholars belonging to
- 2. Management have a choice of written examination pattern or submission of a Special Study and publication of a contemporary review paper as substitutes to Paper I and Paper II respectively.
- 3. CUTM's Research Committee (RC) at its meeting held on 31st January 2017 has resolved to introduce credit system for the course work with a minimum required grade point of 6.0 in the 10-point scale.

The recommendations are as follows.

- a) The scholars shall be given preliminary admission and are required to obtain a grade point of 6.0 through their course work within two years of their admission to the programme enabling them to register for the research work and submission of the thesis.
- b) The course work is to be evaluated through credit system comprising of 2 Papers and a review paper publication, each having 4 credits as per below given details.
 - Paper I - Specialization specific Research Methodology paper.
 - Paper II - Foundation course paper relevant to the area of research.
 - Paper III - Contemporary review paper publication in CUTM or other refereed Journal.

- c) Existing syllabus of Research Methodology paper has been modified with two modules common to all disciplines comprising of topics related to general research methodology in Module I and topics related to literature review, thesis writing and publication in Module II. Module III shall contain topics related to methodology, tools of data collection, analysis, interpretation and presentation of results specific to the disciplines of (i) Engineering and Physics, (ii) Mathematics Chemistry, (iii) Management.
- d) The process of (i) identification and evaluation pattern for Papers I & II (written examination or special report), (ii) submission of 6 monthly reports, (iii) annual reviews, (iv) pre-talk before submission of synopsis, and (v) paper publication in journals with scholar (as first author) and supervisors as authors shall continue. Any paper containing authors other than scholar and supervisors, and papers published to pre-admission date will not be counted.
- e) The provisions of (i) Thesis submission under normal circumstances (within 3 years of registration), (ii) Early submission (not before 2 years from the date of registration), (iii) Deferment, (iv) Transfer of Registration to CUTM from other universities and (v) Transfer of Registration from CUTM to other Universities shall continue.
- f) The conditions related to submission of thesis under normal conditions and extensions beyond 5 years shall remain as it is in the new regulations also. Along with Research Methodology course, one more course for doctoral students with M. Tech and M. Phil degrees is applicable. Similarly, for doctoral students with MBA, M. Sc. and MA degrees, they have to undertake two additional courses along with Research Methodology. Research Methodology is mandatory for all in which the doctoral students have to attend classes during weekends over a span of over 2 months – August – November or for a period of 8 days at a stretch in the month of November at the University Campus.
- g) External examiners will set the examination papers. The Research Methodology course will have 40% internal and 60% external marking. The candidate should appear in a seminar on the research topic emphasizing the importance of the problem, review of literature, methodology and techniques to be adopted including interpretation of data and the expected outcome. The seminar will be open to all. If the Supervisor in his or her wisdom contemplates to grant exemption of the course work, has to submit justification to DSC for approval.

6.1 MONITORING THE PROGRESS OF CANDIDATES

1. A research scholar shall appear before the Doctoral Committee once in six months to make a presentation of the progress of his/her work for evaluation and further guidance. The Doctoral

Committee shall submit the six-monthly progress reports to the Vice-Chancellor with a copy to the research scholar. The Doctoral Committee meeting may be conducted through Zoom/video conferencing if a DC member is not able to attend the meeting.

2. In case, the progress of the research scholar is unsatisfactory, the Doctoral Committee shall record the reasons for the same and suggest corrective measures. If the research scholar fails to implement these corrective measures, the Doctoral Committee may recommend to the respective Director Research with specific reasons for cancellation of the registration of the research scholar.

6.2 Duration of Candidature

The duration of the programme and the time for submission of thesis are counted from the date of provisional registration.

- a) All Ph.D. programmes shall be for a minimum duration of three years, including course work and a maximum of five years for Full time scholars and a maximum of six years for Part time scholars.
- b) If the candidate has published in SCI peer review journals (unpaid), in that case, the Vice Chancellor may allow to minimum two years for thesis submission.
- c) Under extraordinary circumstances if the candidate fails to submit the thesis within the maximum period, the Vice Chancellor, on the recommendations of the Doctoral Committee may grant further extension of the period for a maximum of two years.
- d) The women candidates and Persons with Disability (more than 40% disability) may be allowed a relaxation of two years for Ph.D. in the maximum duration. In addition, the women candidates may be provided Maternity Leave / Child Care Leave once in the entire duration of Ph.D. for up to 180 days.

6.3 Re-registration

After the expiry of the maximum period including the extension granted, a candidate will be permitted to Re-register as per the following regulations.

- [1]. For those candidates who want to re-register under the same supervisor on the same area of research, the earlier Doctoral Committee and the course works completed will hold good.
- [2]. For those candidates who want to re-register with a different supervisor on a different area of research will be subjected to the regulations applicable for the fresh candidates.
- [3]. If the area of research is the same, the new Doctoral Committee will decide whether the earlier course work completed can be considered for exemption or not.

6.4 Extension

The candidate can seek extension / renewal of registration, if required, after three years of registration. The maximum extension a candidate can get is three years (total six years) but a woman candidate can take up to a total of 8 years to complete their PhD. The candidate has to apply for renewal in the prescribed format with the recommendation of the Supervisor to the Vice Chancellor. The DSC will send the justification to the RC for renewal.

After careful scrutiny, RC may approve the extension, which will be communicated to the Director Quality Assurance Cell/ Controller of Examinations and the candidate.

The following should be included in the application for extension to candidature: Summary of the work completed an outline of the work remaining

- I. A timeline for the completion of the remaining work
- II. A proposed submission dates
- III. An explanation for the delay, and
- IV. The most recent progress report

6.5 Exceeding maximum duration

Candidature can be terminated by the Research Committee on the expiry of maximum duration of candidature if there is no submission for examination by then, or where no approval for extension beyond the maximum period has been obtained from the Research Committee.

The Research Committee will notify the candidate, the senior supervisor and the Head of the Faculty or appropriate academic authority six months before expiry of candidature of the maximum date for submission of the thesis and that the candidature will be terminated in the event that the thesis is not submitted to the Research Committee on or before that date. For those students have completed 5 years and have not made any progress, have to ask for extension or re- registration. If the PhD cell is not informed about the extension, the student will be de - registered from the PhD programme.

6.6 Cancellation

- I. The registration of a research scholar whose progress is not satisfactory or who has not reported in person to the supervisor for any one semester is liable to be cancelled by CUTM.
- II. The registration of a research scholar who has not submitted his/her thesis by the end of the prescribed /extended period as provided in the Regulations will be cancelled by CUTM.

6.7 Deferment

Ideally, a candidate should apply for a PhD program when they are definitely ready. However, sometimes life has a way of altering the best-laid plans. When that happens, a candidate should feel free to request a deferral. The candidate can seek to defer their registration, under exceptional circumstances, within two years of initial registration. The maximum period of deferment a candidate can get is two years, that is, the candidate can seek reinstatement anytime within five years. The candidate has to apply for reinstatement following deferral in the prescribed format with the recommendation of the Supervisor to the Chairman, DSC.

The DSC will send the justification to the RC for reinstatement. After careful scrutiny, RC may approve the reinstatement, which will be communicated to the Director Quality Assurance Cell and Controller of Examinations and the candidate.

The following should be included in the application for deferment of candidature: -

- I. One-page summary of the work completed
- II. An outline of the work remaining
- III. The most recent progress report

When the candidate seeks deferment, they will be exempt from paying fees for the period of deferment. Further, that period will not be counted for the duration of the PhD program. When the candidate is reinstated, they would have to pay a processing fee (to be determined at the time of reinstatement) and will have to pay the annual fees applicable at the time of reinstatement from then on, until submission.

a. Transfer to CUTM from another University

Candidates transferring must meet the eligibility criteria of CUTM when registered at another University. Candidates transferring from another University must notify CUTM the research period at the previous University.

The duration of candidature at CUTM will be the duration as described in the section 'Duration of Candidature', minus their period of research at the previous University. Transfers will be approved where a candidate has not crossed over one year of enrolment and subject to the progress in work. Exception will be made for CUTM faculty with the approval of VC.

If a candidate has qualified the pre-registration requirements (research methodology and other course work) from another University, this may be considered if it meets with the UGC requirements. However, the candidate will have to apply through the regular application process in order to be considered. The admission on transfer should not be considered guaranteed.

b. Transfer from CUTM to another University

Candidates can seek transfer from CUTM to another University if they desire. They must have cleared all the dues and should have met all the academic requirements till the date of transfer. The progress reports till date of seeking transfer will then be sent to the University where student is seeking admission in the Doctoral program. They have to apply in the prescribed form (CUTM/PhD/ 2016/ 67.17) and pay the processing fees of Rs.5000/- for the same.

6.8 PROGRESS OF THE STUDY

It is mandatory for all doctoral scholars to spend at least a week in each semester at the University to work with their supervisors. Progress reporting will involve a written

report to the DSC by the Senior Supervisor and a report from the candidate, written jointly or independently. The candidate must have the opportunity to comment and/or acknowledge having seen and discussed the supervisor's report. In case of independent reports both the candidate and the supervisor should have the opportunity to see and comment on each other's reports. The report will then be forwarded to the RC with a recommendation on whether the candidature should be continued or whether any changes are required in the programme.

The candidate must demonstrate satisfactory progress by completing requirements as jointly decided with the supervisor throughout the candidature. The Supervisor and candidate must provide annual progress reports in the prescribed format. It is the joint responsibility of the Supervisor and the candidate to ensure that progress reports are completed within the period.

If unsatisfactory progress is recorded, that is, the candidate has not demonstrated satisfactory progress in two consecutive reports and a recommendation of termination may be made by the DSC to the RC. Progress reports must be treated as confidential documents whose contents can only be used for the purpose of identifying research progress and for no other reason.

6.9 Additional requirements for the award of Ph.D. degree

In addition to a thesis

- I. A candidate should have completed the requisite course work
- II. A candidate should present a seminar each year on the progress of the research or on a topic mutually agreed with the Supervisor related to the topic of research.
- III. It is desirable that a candidate should publish at least one research paper in a reputed journal each year and produce evidence of the same at the time of submission of the thesis.
- IV. A minimum of three articles in referred journals has to be published or accepted for publication (**One should be SCI and other two should be Scopus/ WOS**), before the pre-talk of the doctoral student.
- V. Candidate has to submit plagiarism report duly signed by librarian. The similarity index should not exceed 20%.

6.10 Pre-talk

A student is eligible for pre-talk (progress review before the final Defence), after completion of two years of Ph.D. registration. The pre-talk should be conducted before the start of the academic session (1st June in every year). In case, the pre-talk is held after 31st May, the candidate has to pay the annual fee for the coming year. In the pre-talk, it is mandatory for the student and his/her supervisor to be physically present. In case of transfer cases (from other Universities), the student has to spend a minimum of one year before appearing in the pre-talk.

7. THESIS

The earliest submission process of the thesis can begin after completion of two years from the date of registration. It is mandatory for each student to apply his/her research findings/ framework/ model/ recommendations and include the result/ analysis as a chapter/section in the final thesis. The scholar should have to refer the format before preparing the thesis.

The candidate before submission of the thesis shall submit a synopsis in five copies (not exceeding 1000 words) and a presentation will be made to the DSC. The thesis is to be submitted within three months of submitting the synopsis provided the DSC has accepted the synopsis and recommended for the submission of the thesis.

The thesis may be allowed to be submitted only after the candidate has successfully completed the prescribed course work, and DSC has recommended the same.

For the purposes of a research award, a thesis is normally defined as a proposition that is maintained by an argument. This argument should be logical, systemic and orderly, should proceed through inference where one part of the argument leads to the next and so on.

7.1 Submission of the thesis

One copy of the thesis in the format described above is to be submitted in hard bound and also in a pen drive to the Director Quality Assurance and Controller of Examinations along with a forwarding letter duly endorsed by the Chairman, DSC. (The candidate may be requested to submit additional hard copies if required).

At the time of submission of the thesis, the candidate should submit the following documents and shall pay the prescribed fees:

- I. The original PhD registration letter including the original renewal letter, if any, issued by the University.
- II. A certificate from the Supervisor to the effect that the work done by the candidate is original and is within the area of specialization.
- III. Five copies of the synopsis (not more than 1000 words) with one soft copy.
- IV. Required fee to be transferred online and evidence of payment to be attached.

Following the examination and oral Defense, once the candidate has incorporated all the suggested amendments to the thesis, a final hardbound copy along with an electronic copy (in PDF format) is to be submitted for archival purpose to the University Library.

8. EXAMINATION

8.1 Appointment of Board of Examiners

The DSC shall forward a list of 10 experts (five foreign examiners and five Indian examiners) to the Chairman RC, along with their Curriculum Vitae, for evaluation of the thesis on receipt of the synopsis from the candidate three months prior to submission (that is, the list of examiners will be provided at least two months prior to submission). The Board of Examiners will comprise of three members **(two from within India and one from outside)** who shall be experts in the subject of the thesis. The Chairman RC shall place the approved panel to the Vice Chancellor who shall finalize the names of external examiners (both Indian and foreign) other than the Supervisor(s) for evaluation of the thesis in order of preference. The Chairman RC shall submit the same to the Director Quality Assurance Cell and Controller of Examinations for further correspondence. The examiners shall be of high standing in the field in which the candidate's research programme is conducted.

The approved panel of examiners shall remain valid for two years from the date of approval. The Director Quality Assurance Cell and Controller of Examinations shall mail the synopsis of the thesis to all the examiners (one foreign, two Indians) within two weeks of receiving the synopsis duly recommended by the DSC.

The thesis shall be sent to the examiners (both external i.e. foreign and Indian as well as the internal i.e. supervisor(s)) within two weeks of receiving the confirmation from the external examiners.

8.2 Examiners' Recommendation

The examiners shall individually and independently assess the thesis, prepare brief assessment reports for the guidance of the candidate and make one of the recommendations as provided in Form within 12 weeks of receiving the thesis. A reminder is to be sent thereafter, and if no response is received within 2 weeks; the Director Quality Assurance and Controller of Examinations are to start the process to send the thesis to another examiner in the list.

The response from all examiners will be sent to the Chairman, DSC within 1 week of receiving the last evaluation (from both external and internal examiners). The DSC Chairman convenes a meeting of DSC within one week of receiving the reports of the Examiners and related papers from the Director Quality Assurance Cell and Controller of Examinations.

The DSC meeting will discuss the comments of all examiners. If modifications are indicated, the same will be communicated to the scholar for modification. The modified thesis should be submitted to the same examiner (if required) for re-evaluation within three months. Alternatively, if one of the external examiners accepts and the other clearly rejects the thesis, the DSC will recommend to the Director Quality Assurance and Controller Examinations to send the thesis to another examiner in the list with his/her consent. In case

the new examiner also rejects the thesis, it has to be re-cast and resubmitted. If the examiners are unanimous in accepting the thesis with minor or no modification, a date for Oral Defense shall be fixed.

8.3 Oral Defense

An open oral defense of the thesis shall be conducted by the same committee (and the committee consisted of DSC + one Indian examiner + one expert (Department) constituted for conducting the examination of the thesis. The Research Cell shall be informing to all teaching faculties. If any of the examiners are not available then an alternative external examiner from the examiners' list shall be appointed for this purpose. All members of the DSC and concerned RC, Director Quality Assurance Cell and Controller of Examinations will be invited to the Oral Defense examination. In case, the Board of Examiners recommends for conduct of fresh Oral Defense, the matter shall be placed before the RC for a decision. Fresh Oral Defense may be allowed by RC after two months but within six months from the date of first examination.

The recommendation of DSC after Oral Defense, should be sent to the Director Quality Assurance and Controller of Examinations for necessary approval from the Vice-Chancellor.

The Director Quality Assurance and Controller of Examinations will notify the result after approval of the Vice-Chancellor and the candidate may be issued with a provisional certificate.

8.4 Change Process

If the thesis is rejected by the examiner(s), a candidate will be allowed for re-registration in another topic with another supervisor undergoing the same procedure as described earlier. If the thesis is rejected for the second time then he will be debarred for further registration in any topic under the university.

If the Supervisor recommends for cancellation of registration of a candidate, the same will be placed before the DSC for a decision. After careful observation, DSC may forward its decision to the Chairman, RC for necessary action. If cancellation is accorded, such cancellation however would not disqualify the candidate to continue with Doctoral research under a new supervisor.

If a Candidate wishes to change the Supervisor/ Co-supervisor within the period of registration, he has to apply to the Chairman, DSC in the prescribed format with the consent of the Supervisor/ Co-Supervisor. In case, for some reason consent from the Supervisor cannot be obtained by the candidate for change, the RC will take a considered decision such as change of title of the thesis and joint publications with the new Supervisor. On recommendation of DSC, RC may allow such change by replacing the existing

Supervisor / Co-supervisor with proposed Supervisor/ Co- supervisor in the DSC. The registration number of the Candidate and the date of registration shall remain valid.

If a candidate wishes to change the area of research, he/ she has to apply for fresh registration. The previous registration will be cancelled. The same practice as described earlier will be followed for fresh registration. However, he / she will be exempted from entrance test. If a candidate wishes to change the title of the thesis, he/she has to apply to the Chairman DSC in the prescribed format with the recommendation of the Supervisor. If DSC approves, the decision is communicated to the Director Quality Assurance and Controller of Examinations under the intimation to the Chairman RC.

8.5 AWARD OF DEGREES

Once a thesis has been declared as passed, the requirements of the Regulations have been met, and the final copy submitted, the RC will recommend to the Director Quality Assurance and Controller of Examinations that the candidate be now admitted to the appropriate degree. The award of PhD will be made without any grading. The award will be presented during the University's Annual Convocation.

8.6 AWARDS

The Vice Chancellor's Award for the best Ph.D. thesis will be presented during the convocation. Only candidates receiving 'recognition of outstanding work' by the examiners of the thesis will be considered for this award.

This regulation shall come into force with effect from the date of notification.

9. FEES

Fee structure for the PhD program is available on the website in the admission tab of the University website.

Sub.: Extension of course work, fee payment and research registration for defaulters.

- a. Ph. D. regulations have been modified w.e.f. the academic session 2017 - 18 and as a part of the same it is mandatory for scholars to qualify in the course work by obtaining a minimum CGPA of 6.0 (during the pre-registration year) before they are allowed to register for their candidacy. In the modified regulations, no mention has been made with regard to those who fail to fulfill this mandatory requirement.
- b. Keeping this in view, the research committee has proposed the following policy for implementation w.r.t. such scholars whose CGPA at the end of pre-registration year happens to be below 6.0.
- c. Scholars who obtained a CGPA less than 6.0 needs to improve the same by re-appearing in the course work examination in which they are either disqualified or obtained a poor grade. These scholars can opt for improvement on EOD (Examination on Demand) basis by paying the prescribed charges or appear during the next series of course work examinations conducted by the University (The internal marks scored in discipline specific RM subject remain unaltered). In case their review paper is found to be of low quality and a poor grade was awarded by the research committee resulting in a low CGPA, the scholar has to modify the paper and re-submit the same for publication in CUTM journal.
- d. For such scholars referred above, extension will be granted by the research committee for a period of one semester on payment of the prescribed fee to improve their CGPA. A maximum of two extensions will be allowed for any scholar and those who could not still improve their CGPA, will be automatically de-registered. In case the scholars could secure the minimum CGPA by the above process within the pre-registration year, no extension fee is required to be paid.
- e. The registration of research and the duration of their research period will be made effective from the semester that succeeds the semester in which they obtain the minimum prescribed CGPA.
- f. Respective discipline coordinators shall monitor these matters with intimation to the overall coordinator and Dean, Academic Affairs.