

ANNEXURE B

INDIRA GANDHI DELHI TECHNICAL UNIVERSITY FOR WOMEN

REGULATIONS FOR THE PROGRAMS LEADING

TO DEGREE OF DOCTOR OF PHILOSOPHY

Short Title and Commencement:

- (a) These regulations may be called the “**Indira Gandhi Delhi Technical University for Women (IGDTUW) Ph.D Regulations for the degree of Doctor of Philosophy (Ph.D)**”
- (b) These Regulations shall be applicable to all students admitted to the Ph.D Programme at IGDTUW.

DEFINITIONS:

- (i) "**Applicant**" shall mean a female who applies for admission to the Ph.D. programme of the Indira Gandhi Delhi Technical University for Women (IGDTUW) on a prescribed Application Form.
- (ii) "**Academic Year**" is a period of nearly twelve months devoted to completion of requirements specified in the Scheme of Teaching and the related examination.
- (iii) "**Candidate**" shall mean a person registered for the Ph.D. Degree and who has successfully completed the course work and submitted an approved research plan as per R.11 of the Regulations.
- (iv) "**Caretaker Supervisor**" shall mean a member of the academic staff appointed to look after the candidate's research interests in the absence of the Supervisor.
- (v) "**COE**" shall mean the Controller of Examinations of Indira Gandhi Delhi Technical University for Women.
- (vi) "**Coordinator DRC**" shall mean a member of DRC of a particular Department of the Indira Gandhi Delhi Technological University appointed by Vice Chancellor, to coordinate and convene the DRC meetings.
- (vii) "**Course Work**" shall mean courses of study prescribed by the DRC through the Supervisor to be undertaken by a student registered for the Ph.D. Degree.
- (viii) "**Dean (Examinations)**" shall mean the Dean of Examination Division of Indira Gandhi Delhi Technical University for Women.
- (ix) "**Dean (RC)**" shall mean the Dean, Research & Collaboration.
- (x) "**Degree**" shall mean the Degree of Doctor of Philosophy (Ph.D.) of IGDTUW.
- (xi) "**DRC**" shall mean Department Research Committee.
- (xii) "**Examination**" shall mean examination conducted by Indira Gandhi Delhi Technical University for Women.

- (xiii) "**Full-time Research scholar**" shall mean a person registered for the Ph.D. Degree devoting full time for completing the degree requirements.
- (xiv) "**Joint Supervisor**" shall mean an additional supervisor approved by the URB on the recommendation of DRC to help the supervisor in the accomplishment of the research work of the student/candidate.
- (xv) "**Minimum Registration Period**" shall mean the minimum period from date of final registration to submission of the thesis.
- (xvi) "**Part-time Research Scholar**" shall mean a person who is registered for the Ph.D. degree and will devote part of her time towards their pursuit and devote part of her time towards the discharge of her official obligations.
- (xvii) "**Ph.D Coordinator**" shall mean a member of academic staff of the Indira Gandhi Delhi Technological University appointed by Vice Chancellor, to supervise the admission procedure, register the research students and monitor their performances through DRCs of different departments
- (xviii) "**Registration Period**" shall mean the length of time span commencing with the date of provisional registration at the University till the completion of the programme.
- (xix) "**Residency**" shall mean the minimum period for which a student must attend the University on full-time basis.
- (xx) "**Selection Committee**" shall mean a committee duly constituted by the Vice Chancellor for conducting interview for selection of students to the Ph.D Programme.
- (xxi) "**Semester**" An Academic year is divided into two semesters of six months duration each.
- (xxii) "**Student**" shall mean a person provisionally registered for the Ph.D. degree prior to becoming a candidate.
- (xxiii) "**Supervisor**" shall mean a member of the academic staff of the University approved by URB on the recommendation of Department to guide/supervise the research/ academic work of the student/candidate.
- (xxiv) "**University**" shall mean Indira Gandhi Delhi Technical University for Women (IGDTUW).
- (xxv) "**URB**" shall mean University Research Board.

R.1 CLASSIFICATION OF APPLICANTS AND ADMISSION ELIGIBILITY

R.1.1 Classification of Applicants

The applicants for admission to the Ph.D. programme shall be classified under any one of the following categories:

R 1.1.1 Full Time Research Scholar

A person registered for the Ph.D Degree devoting full time for completing the degree requirements, with or without any financial assistance and satisfying the admission eligibility as defined in R1.2.1.

The persons receiving financial assistance from any sources can further be classified into the following categories:

- i.** Junior Research Fellow(JRF)/Senior Research Fellow (SRF) financed by IGDTUW.
- ii.** Financed by other sources like Sponsored Research Projects or various Fellowship Schemes.

R1.1.2 Part-Time Research Scholars

A person who is registered for the Ph.D degree and will devote part of her time towards their pursuit and devote part of her time towards the discharge of her official obligations and satisfying the admission eligibility as defined in R1.2.2.

R1.2 ADMISSION ELIGIBILITY

R1.2.1The minimum entry qualifications for Full Time /Part Time Research Scholars are as follows:

- (i) For Engineering:** Degree in M.E. / M.Tech or equivalent from a recognized University/ Institution in the relevant discipline with minimum of 60% marks in aggregate or equivalent CGPA & B.E./B.Tech. or equivalent with minimum of 60% marks in aggregate or equivalent CGPA.
- (ii) For Computer Application:** MCA from a recognized University/ Institution with minimum of 60% marks in aggregate or equivalent CGPA & Graduation Degree (with Sciences and Mathematics) with minimum of 60% marks in aggregate or equivalent CGPA.
- (iii) For Sciences and Humanities :** Master Degree in the relevant discipline from a recognized University/Institution with 60% marks or equivalent CGPA & undergraduate degree in the relevant discipline with 60% marks in aggregate or equivalent CGPA.

R 1.2.2 An applicant is eligible for Part Time Research Scholar /Full Time Research Scholar (Sponsored), provided she fulfills the following conditions:

- (i) The Applicant possesses the minimum entry qualifications for the degree as mentioned in R.1.2.1.
- (ii) The applicant is presently employed under any of the following categories :
 - a. Applicants working in organizations which have MOU with IGDTUW.
 - b. Applicants working in regular position as Scientist in a National Level R&D Lab/ a reputed organization.
 - c. Applicants working in regular position as faculty in any recognised educational institution / university.
 - d. Regular /Contractual faculty of IGDTUW.
 - e. Applicants working as professional in a PSU/Corporate/Industry registered under Company's Act organization.
- (iii) The Applicant possesses at least two years of relevant teaching/research experience in regular capacity.
- (iv) The Applicant proves to the satisfaction of the university that her official duties permit her to devote sufficient time to research.
- (v) The applicant gets an NOC from her employer.
- (vi) Facilities for research are available at the applicant's place of work in the chosen field of research

R1.2.3 An applicant shall be eligible for Junior Research Fellowship instituted by IGDTUW provided she fulfills the following conditions:

- a. She possesses the minimum entry qualifications as in R1.2.1.
- b. She has qualified UGC-CSIR-JRF/NET examination or has or qualified GATE with a score above the minimum cut off or qualified RAT examination. A person who has appeared in the above examinations but is awaiting results may also apply. However, she shall be required to produce a valid documentary evidence of having qualified the examination at the time of interview.
- c. She is not receiving any financial assistance from any other sources.

R1.2.4 A person who has already initiated her fellowship in some other institution /organization and is interested to have her fellowship transferred to IGDTUW, may be allowed provided she clears the Selection Process for admission to Ph.D Programme as per R3.

R1.2.5 A student/candidate registered at IGDTUW as Full Time Research Scholar and does not have any financial assistance, may be considered for Junior Research Fellowship/Senior Research Fellowship /any other fellowship/financial assistance subject to availability of financial assistance, provided she fulfills all the eligibility conditions to avail the fellowship and her case is recommended by the DRC and approved by the Vice Chancellor.

R.2 RESERVATION/RELAXATION

R.2.1Reservation of seats for Scheduled Caste, Scheduled Tribe, Other Backward Classes and Physically Handicapped candidates will be as per government rules.

R.2.2Candidates belonging to Scheduled Caste and Scheduled Tribe categories will be given 5% relaxation in the minimum entry qualifications as given in R.1.2.

R.3 SHORTLISTING AND SELECTION PROCESS

R.3.1Admission to the Ph.D Programme may be done on the basis of Research Aptitude Test (RAT) Examination or an interview or both.

R 3.2Depending upon the requirement, the University may advertise for Ph.D admission twice in a year.

R3.3 Applications for joining the Ph.D. programme shall be submitted on a prescribed Form as per the guidelines in the Admission Notification of the university.

R3.4The RAT examination shall be waived off for the following applicants subject to the fulfillment of eligibility for entry qualifications as in R 1.2 and such applicants shall be allowed to appear in the interview directly:

- i.** Full time female teaching staff of IGDTUW.
- ii.** Sponsored applicants from organizations having MOU with the University
- iii.** Applicants who have qualified UGC-CSIR-JRF/NET Or have qualified GATE with a score above the minimum cutoff and successfully completed the degree as in R1.2.

- iv. Foreign students who apply through Ministry of Human Resource Development or foreign students under a Cultural Exchange Scholarship Programme of Government of India
- v. RAT examination will be conducted only if adequate number of applications from exempted categories candidates are not received.

R3.5 The University's Examination Division shall conduct the RAT Examination, do the evaluation and forward the Merit List along with the scores to Dean (RC).

R 3.6A duly constituted committee approved by VC shall prepare the list of the Shortlisted candidates to be called for interview on the University Website.

R3.7The interview for selection of the students shall be conducted department wise by Selection Committees each comprising of at least 5 members including The Vice Chancellor/ VC nominee, Dean(RC)/HOD of the concerned department, all university approved supervisors of the concerned department, External Expert (if required).

R3.8 A person selected by the aforesaid Selection Committee shall be allowed Provisional Registration to the Ph.D Programme from the date of payment of prescribed fees to the University with the allocated approved supervisor(s). The registration shall be confirmed only after satisfactory completion of the course work and approval of research plan by the respective DRC.

R 3.9The Ph.D Coordinator shall coordinate with various departments for conduct of admissions and DRCs.

R.4.1 FINANCIAL ASSISTANCE

- a. The University may provide financial assistance to few Full Time Research Scholars with good teaching skills and appoint them as Junior Research fellow (JRF) / Senior Research Fellow (SRF).
- b. These fellowships shall be distributed on the basis of need across all departments by Dean (RC) in consultation with the Vice Chancellor.
- c. The Terms and Conditions of the fellowship may be decided by the academic council and may be amended from time to time.

- d. All provisions of prevailing Ph.D. Ordinance of the University shall be applicable on the JRF/SRF and allocated supervisor(s).

R.4.2 TUITION FEE

Tuition fees will be decided by University and shall be notified in the University Admission Brochure on yearly basis. Unless stated, full fee shall be charged from student/candidate on annual basis till the candidate submits her thesis for evaluation as per R.17. Full Time Permanent Teaching Faculty of IGDTUW are eligible for a 50 % waiver in the tuition fees.

R.5 REGISTRATION

R.5.1 Every student/candidate will be required to renew the registration every year till the submission of the thesis. The renewal of registration every year shall be subject to completion of specified number of credits/courses and/or satisfactory progress of research work as recommended by DRC.

R.5.2 A student/candidate, who fails to register or renew her registration, may be allowed to renew her registration after obtaining approval from the Vice Chancellor.

R 5.3 A Full Time Research Scholar who gets an employment in any organization may be eligible to convert to Part Time Research Scholar provided she has completed a minimum period of atleast one year after her Final Registration, has a No Objection Certificate from her supervisor(s) and her case is recommended by the Dean (RC).

R 5.4 A Part Time research scholar may be allowed to convert to Full Time research scholar with due recommendation of DRC.

R.6 CANCELLATION OF REGISTRATION

R.6.1Registration of a student/candidate may be cancelled in any one of the following cases, after due recommendation of DRC.

- (i) If she absents herself for a continuous period of four weeks without sanction of leave.
- (ii) If she withdraws from the Ph.D. Programme voluntarily and the withdrawal is duly recommended by the DRC.

- (iii) If she fails to renew her registration every year subject to the provisions contained in these Ordinances & Regulations.
- (iv) If her academic progress is found unsatisfactory and approved for cancellation of registration as per R 12.1 g.
- (v) If she is unable to pass the Course Work successfully as per R7.6.
- (vi) If she does not submit approved research plan as in R.8
- (vii) If she fails to appear for 2 consecutive progress reviews as per R 12.1b without seeking prior approval of the Dean (RC).
- (viii) If she is found involved in an act of misconduct and/or indiscipline and cancellation of registration is recommended by a competent authority.

R.7 COURSE WORK

R.7.1 Each student will be required to take Course Work as recommended by the supervisor(s) and approved by the DRC/ Academic Council. The Course Work shall comprise of:

- (i) Two Compulsory Courses viz., ‘‘Research Methodology’’ and ‘Research Ethics & IPR’.
- (ii) Directed Courses related to the broad research area of the student recommended by the supervisor.

R.7.2

- (i) Students, who are provisionally registered for the Ph.D. degree, shall be required to take minimum four courses (two Compulsory Courses and two Directed Courses) equivalent to a minimum 12 credits as per the recommendations by the concerned DRC.
- (ii) The student with MCA degree shall be required to take minimum six courses (two Compulsory Courses and four Directed Courses) equivalent to a minimum of 18 credits.
- (iii) Each course shall be of minimum three credits with three hours instructions/studies per week.

(iv) The Directed courses shall be recommended by the supervisor preferably from the existing M.Tech courses running at IGDTUW / List of electives for Ph.D Course Work as approved by the DRC/ Academic Council.

R.7.3 The Course Work shall be done in two Semesters and the student shall be evaluated at the end of each semester. The University shall conduct the examination.

R 7.4 In case a student has successfully completed her course work from any other recognized University / institute and wishes to migrate to IGDTUW under an approved supervisor of IGDTUW, she shall be required to clear the Selection Process as prescribed in **R3**. The transfer of course credits may be allowed, on the recommendation of the DRC after due verification of her Marksheet/ Credits earned.

R 7.5 The minimum passing marks for each course is 50% , failing which student may be allowed to give Supplementary Examination in that course.

R.7.6 A student shall earn minimum 12 credits (minimum 18 credits for MCA students) including the Compulsory Courses for successful completion of Course Work. In case a student is not able to earn the requisite number of credits for successful completion of course work within one Academic Year from the date of her Provisional Registration, she shall be eligible for an extension of Provisional Registration to the Ph.D. Programme by six months or a maximum period of one year and she may be allowed to give Supplementary Examination in the courses in which she has failed as per the examination rules of the university. The Supplementary Examination for Ph.D shall be conducted once a year within three months of result declaration of the even semester.

R.7.7 It is mandatory for the Student to successfully complete the Course Work with minimum credits requirements as per R.7.6 within a period of maximum two years from the date of her provisional registration to be eligible for being a Candidate failing which the registration of the Student shall stand cancelled.

R.8 RESEARCH PLAN (SUBMISSION AND APPROVAL)

R.8.1 Each student who has a provisional registration, and has successfully completed the Course Work shall be eligible to present her Research Plan before the DRC and the DRC shall evaluate her broad field of research, academic preparation and potential to carry out the proposed research.

R.8.2 On the basis of the content of the Research Plan, the DRC may either recommend the case for approval of Research Plan for Final Registration as a candidate to the URB or may direct the student to revise the Research Plan.

R.8.3 For approval of the Research Plan a student will be provided a maximum of two consecutive attempts immediately after the completion of her Course Work before the DRC. If DRC does not approve the Research Plan in maximum two attempts after completion of course work, the provisional registration of the student may be cancelled.

R.9 ALLOCATION OF THESIS SUPERVISOR(S)/JOINT SUPERVISORS

R.9.1 Supervisor(s) can be any full-time faculty member of the University with a Ph.D degree. The mandatory eligibility conditions for supervisor(s) are as follows:

- (a) Minimum two years of teaching/research/industry experience after obtaining a valid Ph.D degree from a recognized University/Institution.
- (b) Has been actively engaged in research and has published at least five research papers in refereed international journals /conferences and /or patents granted with at least two papers in reputed journals pertaining to the area of specialization.

R.9.2 Every admitted student shall be allocated a Research Supervisor(s) by the Ph.D Selection Committee depending on research interest of the student and the availability of the vacant slot with the prospective supervisor.

R.9.3 In case of interdisciplinary or collaborative work, a Joint Supervisor either from the university or any other recognized institution /industry/research organization may be allocated to the student by DRC. The mandatory conditions for Joint Supervisor shall be same as that of Supervisor. However, condition of minimum two years of service after doing Ph.D. as in R.9.1 (a) is not mandatory for being a Joint Supervisor.

R 9.4

- a. The number of maximum permissible seats for Ph.D registration shall be: Professor — 8, Associate Professor — 6, and Assistant Prof. — 4.
- b. Each University approved supervisor may be allowed to fill upto a maximum of half of the permissible seats at a time.
- c. The number of maximum permissible seats for a Joint Supervisor is 2.

R 9.5 (i) Two students under joint supervision shall be counted against one seat for the purpose of filling the prescribed number of seats registered with a supervisor.

(ii) A part time student shall be counted against one seat for the purpose of filling the prescribed number of seats registered with a supervisor.

R.9.6 Appointment of Supervisors/Joint-Supervisor in Special Cases

A faculty member appointed as a Ph.D. supervisor is normally expected to be available to a research scholar in the University till the thesis oral defense. However, in special cases, if a supervisor is not available to the student/candidate due to unavoidable circumstances such as: long leave of more than 12 months; resignation; retirement; or death appointment of supervisor(s) will be regulated as under:

i. A supervisor proceeding on long leave of more than 12 months

- (a) Where joint-supervisor exists, the supervisor proceeding on long leave for more than 12 months can continue to be a Supervisor provided the URB/DRC is convinced of effective supervision by the Joint-Supervisor. Where a Joint-Supervisor does not exist, the DRC shall appoint a Joint-Supervisor from the University in cases where a student has not yet submitted her thesis.
- (b) Provided further, if a supervisor proceeds on leave for a period less than 12 months initially, but later extends his/her leave beyond 12 months, the same procedure as per R9.6 i(a) will be followed.
- (c) Provided, if the synopsis of the thesis has been submitted before the supervisor proceeds on leave, he/she will continue to be the supervisor till the student submits her thesis. Further, if a major revision becomes necessary, and the sole supervisor is on leave, the sole supervisor should be asked to state specifically whether he/ she would effectively help the student carry out the major revisions within a reasonable time. In case the sole supervisor expresses his/her inability due to any reasons, a new supervisor will be appointed by the DRC and the candidate may be allowed to submit the thesis under the newly appointed supervisor.

ii. Supervisor retires

A faculty member who is due to retire within the next two years can be appointed as a Joint-Supervisor and can continue to be the Joint-Supervisor even after his/her retirement provided

- a.** The DRC is convinced of his/her availability/continued guidance to the student.
- b.** If the supervisor is re-employed or appointed as Emeritus Fellow.
- c.** If the synopsis of the thesis has been submitted under his/her supervision.
Appointment of another Supervisor, if necessary, will be as per R 9.6 i(a).

iii. Supervisor resigns

A new Supervisor will be appointed, if necessary and the existing supervisor could be a joint supervisor, as per R 9.6 i(a).

iv. Supervisor expires

A new Supervisor will be appointed, if necessary, on the recommendation of DRC and approval by Vice Chancellor.

R.10 COMPOSITION OF DRC and URB

R.10.1 The composition of URB will be as follows:

- i.** Vice-Chancellor or VC's Nominee.
- ii.** Dean , Research and Collaboration,
- iii.** Chairpersons of DRCs / Deans of faculties / HODs of departments.

R.10.2 The DRC shall be constituted for a period of two years. The minimum number of members in any DRC will be **seven**, including at least two academic staff at the level of Professors. The composition of DRC will be as follows:

- i.** Dean of faculty/Head of the Department/Eminent Academician/Eminent Scientist : Chairperson;
- ii.** Two outside expert nominated by Vice-Chancellor ;
- iii.** All Professors of the concerned Department.
- iv.** HOD of the concerned department

- v. Two Associate Professors satisfying the eligibility requirements as per R.9.1, appointed by the Vice-Chancellor for a tenure of two years;
- vi. Two Assistant Professors satisfying the eligibility requirements as per R.9.1 appointed by the Vice-Chancellor for a tenure of two years
- vii. Supervisor(s) only in the cases where the progress report of the concerned candidates shall be discussed.
- viii. Coordinator, DRC

R.10.3 In case, any department fails to have the required minimum number of seven members in DRC as per R 10.2, or if the number of professors is less than two, a joint DRC with other department having closest academic affiliation shall be constituted by the Vice-Chancellor.

R.11. ELIGIBILITY FOR THE CANDIDACY FOR THE DEGREE

A student shall be eligible for Final Registration as a candidate for the Ph.D. Degree after she has completed the following:

- (i) She has successfully completed her Course Work with requisite credit requirements as per R 7.6.
- (ii) She has presented her Research Plan before the DRC and her research plan is approved by the DRC and URB.

R.12

R 12.1 PERFORMANCE MONITORING

- a. The terms for the research work will be as follows: **I Term:** July to December; **II Term:** January to June every year.
- b. The academic/research progress of each student/candidate will be monitored by DRC at the end of each Term.
- c. The DRC shall notify the schedule for submission and evaluation of progress report to the candidates. The candidate shall submit a progress report at the end of each term duly forwarded by her supervisor(s) to the DRC.
- d. The DRC shall evaluate the progress report of the candidate after every term.

- e. 'S' grade is to be awarded during that term if the progress is 'satisfactory'.
- f. If the progress is 'unsatisfactory', 'U' grade is to be awarded and appropriate action be taken. For the first appearance of 'U' grade, a warning would be issued to the candidate and in case a student/candidate is availing any fellowship, her fellowship shall be withheld.
- g. If there are two consecutive 'U' in the progress reports and the scholar still fails to make progress to the satisfaction of the DRC, the registration of the scholar may be terminated on recommendation of DRC and approval of the Vice Chancellor.
- h. The DRC having considered the progress report of each scholar shall recommend one of the following :
 - (i) Continuation of Registration.
 - (ii) Continuation of Registration and issuance of a written warning to the student/candidate and making recommendation in consultation with the supervisor(s), of steps necessary to improve her performance.
 - (iii) Termination of Registration.
- i. The Progress Reports of the candidates and minutes of the DRCs shall be submitted to the Dean (RC).
- j. Submission and review of progress report shall continue till submission of thesis.

R 12.2 ATTENDANCE RULES

- a. All Full Time/Part Time/TRF students including sponsored students must attend at least 75% of classes in each course in which they are registered while pursuing Course Work.
- b. The supervisor/course instructor shall report the shortage of attendance cases to the Ph.D Coordinator. In case, attendance of the student falls below 75% in any course during a month, she will not be paid fellowship/financial assistance for that month.
- c. Further, if her attendance again falls short of 75% in any course in any subsequent month in that semester her fellowship will be terminated for the remaining semester.
- d. A Full Time Research Scholar / TRF after having completed the Course Work must

attend to her research work on all the working days and mark attendance except when she is on duly sanctioned leave.

- e. The requirement of 75% attendance will apply as above on daily attendance except in the cases where longer leave has been duly sanctioned within the leave entitlement of the student.

R.12.3 LEAVE RULES FOR FULL TIME PH.D STUDENTS /CANDIDATES

- a. A proper leave account of each scholar shall be maintained by the supervisor the department concerned.
- b. A full-time Ph.D. student doing her Course Work will be entitled to avail leave for 30 days per academic year including medical leave. She will not be entitled to summer and winter vacations.
- c. Leave beyond the stipulated period in an academic year may be granted in exceptional cases, by the Head of the Department concerned, on recommendation of supervisor subject to the following conditions:
 - (i) The leave beyond 30 days will be without Fellowship; and
 - (ii) Such an extension of upto additional 30 days will be granted only once during the entire programme of the Scholar.
 - (iii) The leave may be subject to the approval of the Head of Department concerned on the recommendation of the Supervisor.
- d. The research scholars will be eligible for Maternity Leave prescribed by Govt. of NCT of Delhi. The candidates getting fellowship will be eligible for Maternity Leave with fellowship as per rules and regulations prescribed by Govt. of NCT of Delhi.
- e. The leave period shall be counted in the total period required for submission of the thesis stipulated in **R 13.1**.

R12.4 SEMESTER BREAK

A student/candidate may be permitted to take a semester break on medical grounds with approval from the Dean (RC). However, such a student shall complete the minimum credit requirements for successful completion of Course Work within the maximum period of two years from her Provisional Registration.

R.13 MINIMUM REGISTRATION REQUIREMENT

R.13.1 The minimum period of Registration after which a candidate can submit her thesis shall be two years, with effect from the date of Final Registration as a candidate.

R.13.2 The maximum period within which a candidate can submit her thesis shall be four years for Full time research scholars and five years for Part time research scholars, with effect from the date of Final Registration as a candidate.

R13.3 An extension of one year for submission may be granted by the Vice Chancellor on recommendation of the DRC on a written request by the candidate submitted through supervisor.

R.14 SYNOPSIS

R.14.1 On completion of research work, the candidate shall submit through the supervisor(s), eight copies of the synopsis of her Ph.D thesis including the title of the thesis and reprints of all published research work done towards fulfillment of doctoral degree to the Chairperson, DRC/HOD of the concerned department for consideration /presentation in forthcoming DRC.

R14.2 Presenting a Pre-Ph.D. seminar before the DRC and recommendation of the DRC is an essential requirement for consideration of title of thesis and submission of the thesis by the candidate. It may be attended by other faculty members and research scholars. Their feedback and comments may be suitably incorporated in the Ph.D thesis, in consultation with the supervisor.

R14.3 A Ph.D candidate shall publish at least one first author research paper from the work carried out in his/her thesis in a refereed, indexed journal before submission of the synopsis and produce evidence for the same in the form of reviewers' comments/ an acceptance letter/ a reprint.

R14.4 The DRC shall forward the title and synopsis of the thesis with its recommendations to the Dean (RC) along with a panel of at least six experts in the subject area of the research work in the thesis proposed by the Supervisor. The panel shall include atleast four experts from premier institutions like IITs/IISC Bangalore/ISM Dhanbad /NITs /IITs /Central universities / Foreign Universities. The DRC may add or delete any of the name(s) of the examiners proposed by the supervisor(s). The supervisor shall be responsible to provide the full contact details of the examiners.

R.14.5 The candidate is required to submit her thesis within 3 months from the date of approval of her Pre Ph.D Seminar and submission of synopsis. In case, the candidate fails to submit her thesis within 3 months of the approval of her Pre Ph.D Seminar, the candidate shall be required to submit fresh synopsis. However, in a special case when a candidate fails to submit her thesis within the stipulated time due to some unavoidable circumstances and has suitable justification for the same, the Dean (RC), may grant extension of not more than three months to the candidate i.e. the candidate may be allowed to submit her thesis within a period not exceeding 6 months from the date of the submission of the synopsis.

R14.6 In case of issues related to intellectual property rights, the supervisor and the candidate shall take the necessary measures to ensure to follow the university Plagiarism Policy.

R.15 THESIS SUBMISSION

R.15.1 A candidate may submit her thesis within the time period as stipulated in **R.14.5** provided that:

- (i) She has completed the minimum period of Registration as provided in **R.13.1**
- (ii) She has become a candidate for the award of Ph.D degree as provided in **R.11**
- (iii) She has presented her Pre-Ph.D seminar before DRC open to all faculty members and research students, and suitably incorporated the suggestions made
- (iv) She has obtained recommendation of the DRC for submission of thesis
- (v) She has submitted the title and synopsis of the thesis along with reprints of all published research work done towards fulfillment of doctoral degree.

R 15.2 The thesis shall be written in English in the specific format and shall contain a critical account of the candidate's research. The thesis should well represent the discovery of facts or fresh approach towards interpretation of facts and theories or significant contribution of knowledge to development or a combination of these. It should bear evidence of the candidate's capacity for analysis and judgment as well as her ability to carry out independent investigations, design or development. The thesis may be supplemented by published work. No part of the thesis or supplementary published work shall have been submitted for the award of any other degree.

R 15.3 The candidate shall certify that the work is free of any form of data falsification, fabrication and plagiarism and shall be solely responsible for any such dispute, or plagiarism issue arising out of the doctoral work. The certificate for such a declaration by the candidate will be available on the university website.

R 15.4 The scholar will also be required to submit a certificate (available on the university website) duly signed by the Candidate and countersigned by the Supervisor(s) in the prescribed format that the work embodied in the thesis is original and has been carried out by the author and that it has not been submitted in full or in part for any other Diploma or Degree of this or any other University.

R 15.5 The scholar shall also attach a Student Approval Form in the format obtained from the UGC for the grant of non-exclusive worldwide license for hosting and distributing their thesis in digital format in, “Shodhganga” or any other database designated for this purpose by the UGC.

R 15.6 Three copies of the thesis in soft binding along with one copy on Electronic media in MS word /PDF format must be submitted to Dean (RC).

R 15.7 The candidate shall also submit a No Dues Certificate as prescribed by the university at the time of submission of the thesis.

R 15.8 The candidate shall also submit “Checklist of all the documents” (as available on the university website) at the time of submission of the thesis.

R.15.9 The Dean (RC) shall send the synopsis and the thesis of the candidate along with the Panel of Examiners as approved by DRC to the Controller of Examinations (COE)/Dean (Examinations).

R.16 APPOINTMENT OF EXAMINERS

R.16.1 The COE/Dean (Examinations) shall get the examiners appointed by the Vice Chancellor from the Panel of examiners recommended by DRC for evaluation of the thesis.

R 16.2 The thesis shall be evaluated by two external examiners independently and anonymously. The Vice Chancellor shall choose the two examiners from the panel of examiners.

R 16.3An examiner cannot be from the same laboratory/institution where the scholar is employed, or from the laboratory/institution/approved research centre to which the Supervisor and/or joint Supervisor of the scholar belongs. Further, a collaborator or co-author of the scholar or his/her supervisor or joint supervisor during the tenure of the concerned Ph.D scholar cannot be an examiner.

R.17 THESIS EVALUATION

R.17.1 The Examination Division will contact the examiners appointed by the Vice Chancellor and take their consent for examining the thesis at the earliest. If the examination branch does not receive the consent from the appointed examiner within one month, approval of Vice Chancellor may be taken for appointment of another examiner from the panel. In case one or more examiners so appointed declines to examine the thesis, another examiner shall be appointed by the Vice Chancellor out of the approved panel. In case the panel gets exhausted, the Dean (RC) in consultation with DRC shall recommend additional names.

R 17.2 The Examination Division may send all communications to the examiners, viz. request for consent, as well as subsequent sending of Ph.D thesis for evaluation and receiving report, electronically through email/fax and/or through post as appropriate and follow-up telephonically. The examination branch shall make all efforts for speedy evaluation of the Ph.D thesis. Each examiner will be requested to submit to the COE/Dean (Examinations), a detailed Assessment Report and his/her recommendations on the prescribed proforma within six weeks of the date of receiving the thesis.

R.17.3 In the case, that the Thesis Evaluation Report is not received from an examiner within a period of four months, the Controller of Examinations/Dean (Examinations) should get another examiner appointed by the Vice Chancellor from the Panel of Examiner in R 16, in his/her place for evaluation of the thesis.

R 17.4 The examiners shall be required to state categorically whether in their individual opinion, the thesis should be:

- a) Accepted for the award of Ph.D degree (subject to oral defense), or
- b) Referred to the candidate for resubmission in the revised form, or
- c) Rejected,

In cases b and c, the examiner shall state the reasons for recommending resubmission/rejection of the thesis. If resubmission is recommended, the examiner shall specifically indicate the modifications that need to be made in the thesis by the scholar. The COE / Dean (Examinations) shall communicate the suggested revisions to Dean (RC) for further communication to the supervisor.

R 17.5 In case both the examiners unanimously recommend award of degree, the same shall be done after a satisfactory open viva voce test (oral defense) by one of the examiners.

R17.6 In case the examiner(s) recommends minor corrections in the thesis, the candidate may incorporate them in consultation with the Supervisor before the viva-voce examination. The Supervisor shall certify that the corrections have been made in the thesis. This may be included with the reports of the Ph.D thesis to be sent to the Vice Chancellor for appointment of the Oral Defense Committee as in R 18.2.

R 17.7 In case the corrections are major and resubmission/re-evaluation has been recommended; the candidate may resubmit the revised version in consultation with the Supervisor, within a period of one year from the date of communication in this regard from the COE/ Dean (Examinations). The revised thesis shall be sent for assessment to the same examiners who recommended revision. In the event of any of them declining to examine the revised thesis, additional examiner may be appointed from the approved panel, and provided with the comments of the previous examiner(s) to facilitate the evaluation of the revised thesis.

R 17.8 In case both the examiners reject the thesis, the thesis shall be rejected and registration of the candidate shall be terminated.

R 17.9 In case that if one of the two examiners recommend the award of degree and the second examiner recommends rejection, the thesis shall be referred to a new examiner to be selected by the Vice Chancellor from the original panel of examiners. If the new examiner recommends acceptance (may be with revision) the case may be processed as per the procedure in R 17.5 to 17.7. However, if the thesis is rejected by the new examiner, it shall not be resubmitted or marked to any further examiner and the registration of the student shall be terminated.

R 17.10 In case if one examiner accepts and one suggests major revisions, then the candidate shall incorporate the revisions as prescribed in R17.7 above, and the thesis shall be sent to the examiner who recommended revision. In case this examiner recommends acceptance (may be with minor revisions), the case may be processed as per the procedure in R 17.5 to 17.7. In the event of disagreement between the examiners, the Controller of Examinations/ Dean (Examinations) as a special case, shall get another examiner appointed by the Vice Chancellor from the panel of examiners in R.16, if the merit of the case so demands. The report of this examiner shall be final and the acceptance or rejection of the thesis shall be based on this report.

R 17.11 After receiving the satisfactory evaluation reports from both the examiners, the Controller of Examinations / Dean (Examinations) shall arrange for Viva Voce Examination of the candidate before a duly constituted committee hereinafter referred to as Oral Defense Committee as per R18.2.

R.18 AWARD OF Ph.D. DEGREE

R.18.1 A candidate who has been recommended for viva-voce examination on the basis of thesis evaluation shall be required to defend her work/thesis orally before a duly constituted Oral Defense Committee (ODC) during working hours of the University.

R.18.2 The ODC shall consist of three members: (i) VC Nominee, (ii) Supervisor/Jt. Supervisor, (iii) One external examiner selected from the two external examiners as in R.16.2. If none of the external examiners is available for the conduct of the oral defense, an alternative external examiner shall be appointed by the Vice Chancellor for this purpose only.

R.18.3 On the completion of all stages of examination, the Oral Defense Committee shall recommend to the Controller of Examinations / Dean (Examinations) one of the following courses of action:

- (a) That the degree be awarded;
- (b) That the candidate be re-examined.

The Oral Defense Committee shall also provide to the candidate a list of all corrections and modifications in the thesis (if required) including suggestions made by the examiners during the thesis evaluation. The candidate shall incorporate all changes as suggested by examiners and submit the hard copy of the final thesis.

R.18.4 The Degree shall be awarded by the University provided that:

- (a) The Oral Defense Committee recommends the award of the degree to the candidate;
- (b) The candidate produces a 'No Dues Certificate' in the prescribed form forwarded by the supervisor and HOD of the concerned department.
- (c) The candidate has submitted a soft copy and two hard cover copies of the thesis: one for the Department Library and one for the Central Library. The thesis should incorporate all necessary/corrections/modifications.
- (d) The hard bound copies of the Ph.D. thesis, submitted after the viva-voce examination, must contain the copyright certificate in the beginning of the thesis :

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R18.5 Following the successful completion of the evaluation process and announcement of the award of the Ph.D, the university may submit a soft copy of the thesis to Shodhganga.

R 18.6 The Examination Division of the University may issue a Provisional Certificate of the completion of Ph.D to the candidate upon successful viva-voce examination followed by award of the final degree at the time of Convocation, along with a certificate to the effect that the Degree has been awarded in accordance with the UGC regulations.

R.19 GENERAL

Notwithstanding anything contained in these Ordinances & Regulations, all categories of the students/candidates shall be governed by the rules and procedures framed by the Academic Council on their behalf, and in force from time to time.

R.20 INTERPRETATION

Any case of doubt or dispute arising about the interpretation of these Ordinances and Regulations or anything not contained in the ordinance, shall be referred to the Vice Chancellor whose decision shall be final.