



RAMAIAH
Institute of Technology

**MSRIT Regulations Governing the
Degree of Doctor of Philosophy (Ph.D.) - 2021**

M. S. RAMAIAH INSTITUTE OF TECHNOLOGY, Bengaluru - 54

(Autonomous Institute, affiliated to VTU, Belagavi)
(Approved by AICTE, New Delhi & Govt. of Karnataka)
Accredited by NBA & NAAC with 'A+' Grade

Regulations Governing the Degree of Doctor of Philosophy (Ph.D.) - 2021

Preamble

These Regulations Governing the Degree of Doctor of Philosophy (Ph.D.) - 2021 have been framed with a view to fulfill the provisions in the

- i. UGC Gazette Notification (Specification of Degrees), 2014,
- ii. UGC Minimum Standards and Procedure for Award of M.Phil./Ph.D. Degrees) Regulations, 2016,
- iii. UGC Minimum Standards and Procedure for Award of M.Phil./Ph.D. Degrees) (second amendment) Regulations, 2018.
- iv. Coursework on Research and Publication Ethics (RPE), D.O.No.F.1-1/2018 (Journal/CARE), December, 2019.
- v. VTU Regulations Governing the Degree of Doctor of Philosophy (Ph.D.) – 2020
- vi. VTU letter No.VTU/Aca/A-12/2021-22/3325 dated 2nd November 2021

They also take into account the experience of the Institute in conducting the Ph.D. programme for more than a decade and aim at ensuring a high standard for the Ph.D. conferment by the Institute/University.

21Ph.D.1.0 Short Title and Commencement

(a) These Regulations shall be called “MSRIT Regulations Governing the Degree of Doctor of Philosophy (Ph.D.) - 2021”.

(b) These shall come into force from the date of their notification by the Institute and be applicable for the Candidates seeking registration for Ph.D. in the Faculty of Engineering, Faculty of Applied Sciences, Faculty of Technology and Faculty of Management studies.

(c) All correspondence with the Institute regarding the Ph.D. programme, like Reports/ Presentation / Thesis shall be in English language only.

21Ph.D.2.0 Definitions

In these Regulations unless the context requires otherwise or it is specifically so defined:

- (01) ‘University’ means the Visvesvaraya Technological University (VTU) with its Head- quarters at Belagavi, Karnataka.
- (02) ‘Vice Chancellor’ means the Vice Chancellor (VC) of the University.
- (03) “Institute” means the M S Ramaiah Institute of Technology, Bengaluru, Karnataka
- (04) ‘Principal’ mean Principal of the Institute.
- (05) ‘Academic Council (AC)’, means the respective Authority of the Institute.
- (06) ‘Governing Body (GB)’, means the respective Authority of the Institute.
- (07) ‘GoI’ means the Government of India.
- (08) ‘GoK’ means the Government of Karnataka.
- (09) ‘Admissions Committee’ means a committee constituted by the Institute to carryout activities concerning the Scholars of Ph.D. programme starting from the admission to award of Degree.
- (10) ‘Doctoral Committee’ means the Committee constituted by the Institute to review the research progress of a Scholar for Ph.D.
- (11) ‘Board of Examiners for final Viva –Voce examination’ means a Board of experts appointed by

the Principal to conduct the final viva-voce on the Thesis submitted by the Scholar.

- (12) 'UGC' means the University Grants Commission established at New Delhi, by an Act of Parliament in 1956.
- (13) 'DEC' means Distance Education Council. Since 2112, it has been renamed as Distance Education Bureau (DEB), a Bureau of UGC.
- (14) 'AICTE' means the All India Council for Technical Education established at New Delhi by an Act of Parliament in 1987.
- (15) 'AIU' means Association of Indian Universities is an Organization and Association of major Universities in India. It evaluates the courses, syllabi, standards, and credits of foreign Universities pursued abroad and equates them in relation to various courses offered by Indian Universities.
- (16) 'Degree at Undergraduate/ Postgraduate /Doctor of Philosophy level' means UG/PG/Ph.D.
- (17) 'NRI/FN/PIO' means Non-Resident Indian/Foreign National/ Person of Indian Origin.
- (18) 'VTU-ETR' means VTU Eligibility Test for Research conducted by the University for admitting Candidates to Ph.D. programme.
- (19) 'Programme' means a course of study for which Degree or Certificate is awarded.
- (20) 'Programme of study' means an approved curriculum to be followed by every individual Scholar.
- (21) 'Discipline' means an academic discipline or field of study and is a branch of knowledge that is taught and researched at the Institution.
- (22) 'Scholar' means Research Scholar who is conducting Full-time Ph.D academic / scientific research in abbreviated form.
- (23) The 'Full-time Ph.D. program' is a, campus-based residential program. The Scholar shall be devoting Fulltime for completing the Degree requirements.
- (24) 'Research Center/Department' means an officially approved center by the University for the Scholars to pursue Ph.D. in an approved discipline.
- (25) 'RC' means Research Center approved by the University.
- (26) 'Affiliation' together with its grammatical variations, includes, in relation to a College, recognition of such College by, association of such College with, and admission of such College to the privileges of a University.
- (27) 'Research Supervisor' means a qualified faculty member or a Scientist/ Engineer approved by the University to supervise/guide the Scholars pursuing Ph.D. /M.S. (Research)/ Integrated Ph.D.
- (28) 'Research Co-Supervisor' means a qualified faculty member or a Scientist/ Engineer who along with the Research Supervisor, supervises/ guides the Scholars pursuing Ph.D. /M.S. (Research)/ Integrated Ph.D.
- (29) 'Coursework' means the courses prescribed as a part of the Ph.D. programme, which the Scholar shall successfully complete as a pre-requisite to the programme.
- (30) 'SCOPUS/SCI/WoS Indexed Journals /UGC-CARE Approved Journals' means reputed professional journals or literary journals or publications in which the research articles or papers are selected for publication by a panel of expert referees in the field.
- (31) 'SCOPUS/SCI/WoS Indexed Journals' refers to journals of higher scientific quality as compared

to non-indexed journals. These are bibliographic databases containing abstracts and citations for academic journal articles.

- (32) ‘UGC - CARE Approved Journals’ means journals selected by UGC to match global standards of high-quality research in all academic disciplines under its purview and to ensure prevention of academic misconduct that includes plagiarism in academic writing among students, Research Scholars, and faculty. CARE stands for Consortium for Academic and Research Ethics.
- (33) A ‘DOI’, means Digital Object Identifier, is a unique permanent alphanumeric string (e.g., DOI: [10.1109/ICCSRE.2119.8807726](https://doi.org/10.1109/ICCSRE.2119.8807726)) assigned by a publisher for identifying an article and to provide a persistent link to its location on the Internet. The DOI will be with the article itself, usually on the first page somewhere, or in the header or footer.
- (34) ‘ORCID’, means Open Researcher and Contributor ID, is used to identify a person particularly who is an academic author. The ORCID ID is a 16-digit number that is compatible with the ISO Standard (ISO 27729), e.g., <https://orcid.org/0000-0001-2345-6789>.
- (35) ‘Google Scholar id’ is an identifier of a person, in the Google Scholar academic search service. Google Scholar allows users to search a wide variety of materials including articles, books, conference proceedings on a vast number of topics. It also allows to know how many times an article has been cited and by whom, and provides citations for articles in a number of styles.
- (36) ‘Plagiarism’ means the practice of taking someone else’s work or idea and passing them as one’s own.
- (37) ‘Provisional Registration’ means the registration till the successful completion of both Part-I and Part-II. [Refer to 21Ph.D. 11.0]
- (38) ‘Website’ means the website of the Institute at www.msrit.edu

21Ph.D.3.0 Faculties

The Institute offers Degree in Doctor of Philosophy (Ph.D.) in the following Faculties and Specializations, including interdisciplinary Research.

The Degree shall be awarded in the Faculty and Specializations in which the Candidate registers for the Ph.D. programme with the approval of Admissions Committee.

Faculty	Specialization
21Ph.D.3.1 Faculty of Civil Engineering Sciences	Civil Engineering
21Ph.D.3.2 Faculty of Mechanical Engineering Sciences	(i) Mechanical Engineering (ii) Industrial Engineering and Management
21Ph.D.3.3 Faculty of Electrical and Electronics Engineering Sciences	(i) Electrical and Electronics Engineering. (ii) Electronics and Communication Engineering (iii) Electronics & Telecommunication Engineering
21Ph.D.3.4 Faculty of Computer and Information Sciences	(i) Computer Science and Engineering (ii) Information Science and Engineering
21Ph.D.3.5 Faculty of Technology	(i) Chemical Engineering (ii) Biotechnology (iii) Medical Electronics Engineering
21Ph.D.3.6 Faculty of Management	Management

21Ph.D.3.7 Faculty of Applied Sciences	(i) Physics (ii) Chemistry (iii) Mathematics (iv) Computer Applications
*The Admissions Committee shall recommend appropriate faculty for the award of Ph.D. Degree based on the profile of the Scholar, the Specialization of the Research Supervisor, Research topic, etc. This shall equally be applicable to cases belonging to other Faculties and Specializations in unforeseen circumstances.	

21Ph.D.4.0 Categories of Research Programmes and other Requirements

There shall be provision for the following categories of Ph.D. programmes:

21Ph.D.4.1 Fulltime Ph.D. programme

- (a) Candidates, who are not employed and Candidates who are sponsored/deputed are eligible to Fulltime Ph.D. programme.
- (b) Candidates who take up Ph.D. programme on Fulltime basis shall not be allowed to take up any employment during the period of Ph.D. programme.
However, they can receive Scholarship / fellowship / stipend/ assistantship, if any, with an intimation to the Principal.
- (c) NRI/FN/PIO Candidates shall be eligible for admission to Fulltime Ph.D. programme. However, the Candidates shall have passed the UG / PG programmes in the appropriate branch from a University recognized/accredited by approved bodies in India with medium of instruction in English or qualified in TOEFL/ELTS, or equivalent and be able to communicate in English and also submit the Thesis in English language only.
- (d) Foreign Nationals shall hold valid passport/visa, clearance from MHRD and other documents as mandated by the GoI throughout their studentship at the Institute.

21Ph.D.5.0 Eligibility for Admission to Ph.D. programmes

21Ph.D.5.1 Minimum Qualifications to be satisfied

The minimum academic qualifications required for seeking admission to the Ph.D. programme, shall be as given below.

For conversion of CGPA to percentage marks, the Institute shall consider the following expression for undergraduate and postgraduate programmes:

$$\% \text{ Marks} = (\text{CGPA} - 0.75) \times 10$$

21Ph.D.5.2 Faculty of Engineering

(a) Candidates with PG Degree

The Candidates shall possess a Master's Degree in Engineering / Technology or equivalent Degree or M.S. (Research) Degree or M.Sc. (Engg. by Research) degree from the University or any other University recognized by VTU, with a minimum CGPA of 6.75 out of 10 or 60% aggregate marks at either the Bachelor's or the Master's Degree.

(b) Candidates with UG Degree

The Candidates possessing Bachelor's Degree in Engineering / Technology or equivalent recognized by the University with outstanding merit, having either a minimum CGPA of 7.75 out of 10 or 70% aggregate marks and published research papers in refereed journals or filed/obtained patents shall also be eligible for admission, subject to approval by the Admissions Committee.

21Ph.D.5.3 Faculty of Management

(a) Candidates with regular mode PG Degree

The Candidates shall possess MBA/ equivalent Degree from a recognized University with a minimum CGPA of 6.75 out of 10 or 60% aggregate marks at the Master's Degree.

(b) Candidates with Distance mode MBA Degree

Candidates with MBA Degree obtained through distance mode from UGC/ DEB (formerly DEC) approved Institutions shall be allowed to register for Ph.D. as per UGC/AICTE norms on condition of two years teaching/research/corporate experience after the successful completion of their PG Degree.

21Ph.D.5.4 Faculty of Applied Sciences

(a) Candidates with regular mode PG Degree

The Candidates shall possess M.Sc. Degree in Physics, Chemistry, Mathematics, Geology or MCA and such other allied disciplines, recognized by the University with a minimum CGPA of 6.75 out of 10 or 60 % aggregate marks at either the Bachelor's or the Master's Degree.

(b) Candidates with Distance mode MCA Degree

Candidates with MCA Degree obtained through distance mode from UGC/DEB (formerly DEC) approved Institutions shall be allowed to register for Ph.D. as per UGC/AICTE norms on condition of two years teaching/research /corporate experience after the successful completion of their PG Degree.

21Ph.D.5.5 Programme in Interdisciplinary Subject Areas

(a) The Candidates desirous of pursuing Ph.D. in subject areas of interdisciplinary nature shall fulfill the following eligibility requirements:

The Candidate shall possess the Master's Degree in appropriate branch/ subject/ discipline recognized by the University, with a minimum CGPA of 6.75 out of 10 or 60% aggregate marks.

(b) For interdisciplinary Research work, Degree shall be awarded in the Faculty in which the Candidate has been permitted to register for the Ph.D. programme by the Admissions Committee.

21Ph.D.6.0 Committees and Boards

The Institute shall constitute the following Committees and Boards for monitoring the Ph.D Programmes:

- (i)** Admissions Committee (Common to all Ph.D Programmes)
- (ii)** Doctoral Committee
- (iii)** Board of Examiners for final Viva –Voce examination
- (iv)** Expert Committee and such other Committees/ Boards, as may be required.

The composition, duties and responsibilities of the Committees and Boards shall be as given below.

21Ph.D.6.1 Admissions Committee

(a) The Admissions Committee to be constituted by the Principal shall composed of:

- (i)** Principal – **Chairperson**
- (ii)** Nominee of the VTU – **Member**
- (iii)** Nominee of the Principal– **Member**
- (iv)** Nominee of the Principal – **Member**
- (v)** Registrar Academic– **Member Convener**

In need, the Principal shall nominate additional member/s.

21Ph.D.6.1.1 Role of Admissions Committee and its Tenure

- (a) The Admissions Committee shall be responsible for,
 - (i) Identification and notification of intake to Research Programmes.
 - (ii) Scrutinizing of the application of the Candidates to determine their eligibility, including those who are eligible for exemption from the Visvesvaraya Technological University – Eligibility Test for Research (VTU-ETR).
 - (iii) Preparation of the merit- list(s) of Candidates based on the VTU-ETR score in percent format.
 - (iv) Deciding on the number of Candidates from the merit list(s) to be called for pre- registration interview.
 - (v) Conducting pre-registration interview for such short listed Candidates.
 - (vi) The implementation of Policy in the admission process.
 - (vii) Conducting such other tasks connected with the admission of the Candidates for the Research Programmes.
 - (viii) To be an advisory and approving body for all the issues concerned with Ph.D Programmes.
- (b) The tenure of the Admissions Committee shall be at least three (03) years. The Committee shall meet as often as required

21Ph.D.6.2 Doctoral Committee

- (a) The Doctoral Committee constituted for each Scholar shall have members having Ph.D. Degree in the relevant field.
- (b) However, the condition under (a) above, is not applicable for persons working as Head or in charge of Research Center located at State, Central, Private, Corporate Organizations/ Research laboratories, Research Organizations, Research Institutions and Industries.
- (c) Following shall be the composition of Doctoral Committee:
 - (1) Principal of the College. – **Chairperson**
 - (2) Head of the Department - **Member**
 - (3) Two experts in the same domain of the Research Scholar – **Members**
Out of the two domain experts, one of them shall be from VTU affiliated Colleges and the other shall be from IISc, IITs, IIITs, IIMs, NITs, Universities belonging to State and Central Governments and reputed Research Organizations within the country, both being nominated by the Principal.
 - (4) Research Supervisor – **Member Convener**
 - (5) Co-Supervisor (if any) – **Member**
- (d) The Research Supervisor, in consultation with the Research Center Head, shall submit names of four domain experts to the Principal for approval. Out of the four domain experts, two of them shall be from VTU affiliated Colleges and the other two shall be from IISc, IITs, IIITs, IIMs, NITs, Universities belonging to State and Central Governments and reputed Research Organizations within the country.
- (e) Principal,
 - (i) Shall choose two experts (one from VTU affiliated Colleges and the other from IISc, IITs, IIITs, IIMs, NITs, Universities belonging to State and Central Governments and reputed Research Organizations within the country) to be nominated for the Doctoral Committee from the proposed list of domain experts.
 - (ii) Can also set aside the proposed list of experts, to appoint alternate experts.
- (f) In case,
 - (i) any person under serial number (1) and (2) of the Doctoral Committee is a Research Supervisor /Co – Supervisor of the Scholar, and
 - (ii) any person under serial number (1) has a possibility of appearing under both serial number (1) and (2),

Principal shall appoint an alternate Chairperson/Member for Doctoral Committee by selecting one of the members from a panel [prepared in consultation with the Research Supervisor(s)] of four domain experts (external to the College) submitted.

- (g) The members shall serve the Doctoral Committee, provided they have no close relative or spouse registered in that Research Center.
- (h) The Principal shall appoint alternate external domain expert(s) on the Doctoral Committee after receiving the names of additional experts from the Head of the department, in case the domain expert(s) is unable to attend the deliberations of the Committee for two consecutive half – yearly meetings.

21Ph.D.6.2.1 Role of Doctoral Committee

- (a) The Doctoral Committee shall be responsible to guide, review and monitor the progress of the Scholars pursuing Research programme starting from commencement of the programme until submission of the Thesis.
- (b) The Doctoral Committee shall meet as often as required, but at least once in every six months to oversee the progress of the Scholar for evaluation and further guidance. The half yearly progress reports shall be uploaded to the Ph.D portal of the Institute by the Doctoral Committee.
- (c) The Doctoral Committee shall assess the performance of the Scholar and declare the same to be satisfactory or unsatisfactory.
- (d) In case the progress of the Research Scholar is not satisfactory, 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 with specific reasons for cancellation of the registration of the Research Scholar.
- (e) The Doctoral Committee shall forward its recommendations to the Principal, regarding the cancellation of the registration of the Research Scholar, the change of Research Supervisor/Co-Supervisor, use of other Research Center, change in Research area and topic and other matters related with the Research Programme. [A copy of the same be marked to the Controller of Examinations].
- (f) The Head of the department, shall arrange to place the recommendations of the Doctoral Committee before the Admissions Committee for its approval.

21Ph.D.6.3 Board of Examiners for final Viva –Voce examination

- (a) The Board of Examiners for final Viva –Voce examination shall be constituted by the Principal or for each Scholar soon after the receipt of favourable reports from all the adjudicators. The Board shall have the following composition:
 - (1) Principal– **Ex-officio Chairperson**
 - (2) Research Supervisor – **Member (Examiner)**
 - (3) Co- Supervisor (s), if any – **Member (Examiner)**
 - (4) Identified Adjudicator – **Member (Examiner)**
- (b) The Board shall conduct the final viva-voce for the Scholar to defend his/her Ph.D. Thesis.
- (c) The board shall submit its detailed report in the prescribed format to the Controller of Examinations.

21Ph.D.6.4 Other Committees and Boards

- (a) The Principal may constitute any other necessary Committees/ Boards in connection with other specific requirements in the conduct of the Ph.D Programme.
- (b) The duties/responsibilities and other details of these Committees/ Boards shall be notified by the Institute as and when they are constituted.

21Ph.D.7.0 Eligibility and Procedure for Recognition as Research Supervisor/ Research Co-Supervisor

VTU recognized supervisors

21Ph.D.7.1 Allotment of Candidates to Research Supervisors

The following norms / procedure shall be strictly adhered to by the Institute while assigning Research Supervisors/ Research Co-Supervisors (if required) to the Candidates to be admitted at a Research Center.

- 1) Based on the approved Fellowship seats
- 2) Based on the merit
- 3) Based on the Research area
- 4) Based on the availability of supervisor/s
- 5) Of the total number of Scholars permitted to be registered under a Research Supervisor as above, there shall be seats reserved for SC/ST/Category-1/ specially abled Scholars in each case as per the Reservation Policy of GoK.

The category wise distribution of Scholars Shall be as indicated in the Table – 1

Table – 1					
Allotment of Category wise Scholars to Research Supervisors of different cadre supervising/guiding as a Research Supervisor or Research Co-Supervisor.					
Research Supervisor/ Research Co-Supervisor Cadre	Maximum number of Scholars permitted to be supervised /guided. (Scholars may be pursuing Ph.D./ M.S. (Research)/ Integrated Ph.D.)	General Merit Scholars	SC/ST/Cat -1 Scholars	Specially abled or any other reserved category Scholars (i.e., IIA, IIB, IIIA and IIIB)	Foreign National Scholar/s
Professor	08	04	01	01	02*
Associate Professor	06	03	01	01	01*
Assistant Professor	04	02	01	01	--
Scientists/Engineers	Allotment of Scholars shall be based on the concerned Organization's certified cadre equivalence of the Scientists/Engineers with respect to Professor/ Associate Professor / Assistant Professor working in educational Institutions.				
* If a Research Supervisor/ Research Co-Supervisor does not enroll Foreign National Scholar/s, the vacant seat/s shall be shifted to General Merit.					

- 1) The seats reserved for SC/ST/Category-1/ specially abled Scholars shall be mutually interchangeable as per UGC norms, but not transferrable to the General Pool.
- 2) The University shall follow the Reservation Policy of GoI and GoK as applicable from time to time, for the total number of Scholars allotted to Supervisors in an academic year.
- 3) Allocation of Scholars (new or transferred under change of Research Supervisor/ Research Co-Supervisor) to Research Supervisor/Co-Supervisor shall not be more than 25% of the permitted allocation during an academic year [2 Scholars for Professor cadre, 02 for Associate Professor cadre and 01 for Assistant Professor cadre, with reference to 21Ph.D. 7.1)].
- 4) New Scholars for supervision shall not be assigned to Research Supervisors/Co-Supervisors who have less than four years of service left before the age of superannuation.

However, allotment shall be made to such Supervisors who will be attaining the superannuation, provided the Institution where the Research Supervisor/ Research Co-Supervisor is working submits an under taking that the concerned Research Supervisor/ Research Co-Supervisor shall be

continued as per the clause 7.16 of AICTE Approval Process Handbook 2021-22(page 104).

21Ph.D.7.2 Responsibilities of Research Supervisors

- (a) No Research Supervisor/ Research Co-Supervisor shall supervise his/her close relative or spouse for Ph.D. Degree.
- (b) A Research Supervisor/ Research Co-Supervisor recognized by VTU shall not be a Research Scholar concurrently under this Institute.
- (c) The Research Supervisors and Research Co – Supervisors shall adhere to the provisions of
 - (i) MSRIT Regulations Governing the Degree of Doctor of Philosophy (Ph.D.) – 2021 and to the amendments notified from time to time.
 - (ii) UGC/AICTE/VTU norms notified from time to time.
- (d) Whenever the Research Supervisors/Research Co - Supervisors change the place of working, they shall inform the same to the Institute and update the information along with the age of superannuation at the new place of working.
- (e) In case, the Institute allots Scholar/s in needy circumstances without the consent of the Research Supervisors/Research Co - Supervisors, the Supervisors shall accept the responsibility of supervising the Research Scholar/s.
- (f) Every Research Supervisor/Research Co - Supervisor shall supervise at least one Ph.D. Scholar in a continuous period of five years. In case, the Supervisor fails to supervise as mentioned, approval as a Research Supervisor/Research Co - Supervisor shall stand withdrawn. In such a case, fresh registration shall be sought from the University.

21Ph.D.8.0 Admission Procedure for Ph.D. programmes

21Ph.D.8.1 Institute Notification for Admission to Ph.D Programme

- (a) The admission to Ph.D. programmes shall be made once in an academic year by the Institute. The Institute shall call for Applications for Admissions on its website and through advertisement.

21Ph.D.8.2 Submission of Applications

Application from the eligible Candidates shall be submitted as follows:

All eligible Candidates satisfying the requirements shall submit their applications via the web link <www.msrit.edu>

21Ph.D.9.0 Pre-Registration Interview

- (a) The scope of Pre- Registration interview shall be to judge,
 - (i) The Candidate's knowledge and experience in the subject area concerned and his/her preparations to undertake the proposed research work.
 - (ii) Whether the research work can be suitably undertaken at the Institution.
 - (iii) Whether the proposed area of research can contribute to new/additional knowledge.
- (b) The Admissions Committee shall arrange for the conduct of pre-registration interview, Faculty wise, through Expert Committees.
- (c) For this purpose, the Principal shall constitute Expert Committee for each specialization of the faculty to which the Candidates are being considered for admission, based on the Admissions Committee recommendation.
- (d) The Expert Committee meetings for pre-registration interview shall be held on date/time and at venue(s) as decided by the Admissions Committee.
The same shall be notified, by the Principal, to the Expert Committee(s) and shall be published on Institute website for the attention of Candidates concerned.

(e) The Pre-Registration interview shall be conducted for a maximum of 30 marks.

21Ph.D.9.1 Pre-Registration Interview performance

- (a) Qualified Candidates who have applied for Fulltime Ph.D. programme and called for Pre-Registration Interview shall present the research proposal (as per the annexure-1) and face Viva – Voce.
- (b) The Expert Committee shall award the Pre-Registration interview marks, for the parameters specified in the Institute prescribed format (Annexure – 2) prepared for the purpose, and inform the candidates appropriately.

21Ph.D.9.2 Merit Lists after Pre-Registration Interview

- (a) The Institute shall prepare the merit list Faculty and specialization wise, department wise
- (b) The Institute shall prepare two merit lists, one corresponding to those who have attended only the Pre-Registration Interview and the other corresponding to those who have qualified VTU – ETR marks and attended the Pre-Registration Interview.
- (c) Merit list based on the pre – Registration Interview marks shall be for
- (i) NRI/FN/PIO.
- (ii) the Candidates qualified in the UGC-NET (including JRF)/UGC-CSIR NET (including JRF)/SLET/GATE/CAT or other similar national tests and having qualifying scores in their respective validity periods and Candidates with M.Phil. Degree.
- (d) The merit list corresponding to those who have qualified VTU – ETR marks (present and the previous) and attended the Pre-Registration Interview shall be decided by considering the sum of qualified VTU-ETR marks scaled down to 70 marks and the marks secured in the Pre-Registration Interview.
- (e) For cases where Candidates have same qualified marks, the tie shall be resolved by applying the following criteria one after the other till the tie is resolved.
- (i) First criterion: The Candidates with more marks in the VTU – ETR. (ii) Second criterion: Percentage marks/ CGPA at Postgraduate Degree. (iii) Third criterion: Percentage marks/ CGPA at Undergraduate Degree. (iv) Fourth criterion: Date of Birth (elder shall be placed on the top).
- In unforeseen situations, the decision of the Admissions Committee shall be considered as the final one.
- (f) On approval of the merit lists by the Admissions Committee, the Principal shall notify the same on Institute website.

21Ph.D.10.0 Institute Policy for filling the vacancy positions in Ph.D. programme

- (a) The Institute shall allot the Research Supervisor/Co-Supervisor/Research Center and decide the Faculty and the Specialization under which the Ph.D. Degree to be awarded based on order of merit.
- (b) Filling of vacancy positions by allotment of Research Supervisor(s) shall be in the following order for Candidates who are exempted from VTU – ETR but appeared for Pre-Registration interview.
- (i) Candidates under NRI /FN/PIO.
- (ii) Candidates who have cleared national eligibility tests and those who are M.Phil. qualified. The allotment in the above two cases shall be in the order of merit based on the Pre-Registration interview marks.
- (c) The allotment of Research Supervisor/s for Candidates who are qualified in VTU – ETR (present and the previous) shall be based on the sum of qualified VTU – ETR marks and Pre-Registration Interview marks.

21Ph.D.10.1 List of Candidates to be admitted to the Ph.D Programmes

- (a) The Expert Committee of the department shall forward the list of Candidates to be admitted to the Ph.D. programme along with the names of the Research Supervisor and Research Co - Supervisor (if any), Faculty and Specialization (if any), to the Principal.
- (b) The Principal shall communicate the list of selected Candidates to be admitted to the programme to each Research Center/department and publish the same on Institute website with an instruction that the Candidates to get admitted to the Ph.D. programme within 10 days from the date (first last date) of publication of the list.
- (c) Candidates not completing the process of admission, for any reason on or before the first last date prescribed by the Institute, shall be entitled for an extension period of seven days (second last date) subject to a penal fee of Rs.1000/- payable to Institute.
- (d)(i) In case of any vacancy available after the last day of extended period of seven days (second last date) for admission to the Ph.D. programme, the merit/waiting list shall be operated by the Institute and the admission shall be closed within 10 days (third last date) from the second last date with no further extension.
- (ii) Candidates having grievance/s regarding allotment of Research Supervisor/ Research Co-Supervisor, Faculty under which the Ph.D. Degree shall be awarded may appeal with valid reasons to the Admissions Committee for consideration, through Research Center Head. The decision of the Admissions committee shall be final and binding by all.

21Ph.D.10.2 Post Provisional Admission Activities

- (a) On reporting to the Department/Research Center and upon successful interaction with the allotted Research Supervisor(s), each Scholar shall submit provisional Ph.D. registration acceptance, Proposal/Outline in the Institute prescribed format along with fee payment receipt for the provisional Ph.D. registration to the Principal through the Research Center/Department. This shall be mandatory for all the Scholars.
- (b) The provisional registration of all the Scholars shall commence from the same date which shall be the next working day of last date prescribed by the Institute for closing the admission to the Research Programme.
- (c) Upon receiving the research proposal / outline, the panel of domain experts, proposed names of other members of the Doctoral Committee and fee payment receipt for the Institute prescribed amount, the Principal shall constitute the Doctoral Committee as per 21Ph.D. 6.2 (c).

21Ph.D.11.0 Schedule of events of Ph.D. Programme

- (a) After provisional registration, the Ph.D. programme of the Scholar shall consist of four parts to be cleared in sequence, namely,
 - Part-I: Coursework
 - Part-II: Comprehensive Viva-Voce
 - Part-III: Open Seminars, Mandatory Publication of papers
 - Part IV: Pre-Submission Colloquium, and Submission of Synopsis covering all the chapters of the Thesis and Submission of Thesis.

These shall be followed by Thesis evaluation and its defense by the Scholar at the end.

- (b) The Coursework for all Scholars shall be as prescribed under 21Ph.D. 11.1.
- (c) All the Ph.D. registrations shall be provisional initially and shall be confirmed only on the successful completion of both Part-I and Part-II.

21Ph.D.11.1 Ph.D. programme Coursework (Part – I)

- (a) The coursework shall be treated as prerequisite for preparing the Scholars for Ph.D. Degree.
- (b) Scholars provisionally registered for Ph.D. programme shall have to complete the prescribed coursework.

- (c) The number of courses of the coursework to be completed shall be as per the annexure - 3.
- (d) Out of the total prescribed courses, one course namely, Research and Publication Ethics (RPE) as per UGC [Under Group – 0 of VTU] shall be compulsory for all Scholars. The remaining courses shall be pertaining to their Research area.
- (e) Other than Research and Publication Ethics, the remaining relevant research area courses of advanced level shall be framed in consultation with the Research Supervisor and Co-supervisor (if any), approved by the concerned BoS and with the approval of the Doctoral Committee concerned.
- (f) The minimum marks for a pass in each course of the coursework shall be 55 marks for a maximum mark of 100.
- (g) To promote responsible conduct of research, the Scholars who have not studied the course Research Methodology and IPR/Research Methodology, shall have to complete the said course as additional course. This course shall not be a part of Part – I. However, completion of the course, through an examination conducted at the Research Center by the Research Supervisor, before pre-submission colloquium, is mandatory for the award of the Ph.D. Degree. The Doctoral Committee shall prescribe the said course, in case the Scholar has not studied, and endorse the completion of the same in its half yearly report.
- (h) Apart from the prescribed courses under coursework, the Doctoral Committee along with the Research Supervisor can propose one or two optional audit courses that are essential to the Research work. The Scholar shall be evaluated in the optional audit courses at the Research Supervisor level.
- (i) Based on the recommendations of the Doctoral Committee [Addressed to Principal], change of registered course/s for which the Scholar has not appeared for the coursework examination, shall be permitted within the period of first two consecutive coursework examinations conducted from date of the provisional registration of the Scholar.
- (j) No permission shall be accorded for change of course/s for which the Scholar has already appeared for the examinations and unsuccessful in completing the course/s.
- (k) Institute shall conduct examinations for the courses of the coursework twice during every academic year.

21Ph.D.11.2 Teaching- Learning Process for Coursework

- (a) Each Research Center shall make arrangements to conduct offline/online/blended classes for the courses of the coursework (except for Research and Publication Ethics). All courses prescribed for the Ph.D. coursework shall be in conformity with the credit hour instructional requirement and assessment methods. For learning, the Research Scholars can also opt for the courses offered by VTU's e-Learning Center/SWAYAM/NPTEL, etc.
- (b) The Principal shall notify the calendar regarding the coursework classes to be conducted by the Research Centers/departments.
- (c) Each course of the prescribed coursework (Part – I) shall be evaluated through examination conducted by the Institute for a maximum mark of 100. The minimum marks for a pass in the examination shall be 55 % of the maximum marks of the paper.
- (d) For assigning the grades to the marks secured in a course by Research Scholars, the following letter grades shall be used.

Letter Grades	Range of Marks Secured in the University Examination
S	90 to 100
A	80 to 89
B	70 to 79
C	55 to 69
F	Less than 55

- (e) The prescribed coursework (Part – I) shall be completed in not more than two consecutive coursework examinations conducted by the Institute from the date of provisional registration of the Scholar.
- (f) Scholars shall pass all the prescribed courses in a maximum of two attempts. The two attempts refer to the first two consecutive coursework examinations conducted by the Institute from the date of provisional registration of the Scholar to the Ph.D. programme.
- (g) Not registering for any of the consecutive coursework examinations conducted by the Institute or absenting to an examination after registering for a course/s to appear in the examination, shall be considered as an attempt.
- (h) The minimum attendance to be satisfied by a Scholar in a course of a coursework shall be 75%. This shall be certified by the Doctoral Committee in its half yearly report.
- (i) In case the Scholar fails to satisfy the attendance requirement of any course(s), the Scholar shall have the opportunity to repeat the teaching –learning process and complete the course/s in not more than two consecutive Institute Coursework Examinations conducted from the date of Provisional Registration of the Scholar to Ph.D. programme.
- (j) The provisional registration of Scholars failing to complete the coursework in two consecutive Institute Coursework Examinations conducted from the date of Provisional Registration to Ph.D. programme, shall be cancelled.

The Principal shall make arrangements to place before the Admissions Committee, for its considerations, the list of Scholars who have failed to complete the courses of the Coursework in two consecutive Institute Coursework Examinations conducted from the date of Provisional Registration to Ph.D. programme.

With the approval of the Admissions Committee, the Principal shall notify the cancellation of registration of Scholars to Ph.D. programme on Institute website and intimate the same to Research Supervisor(s), Research Center and the Scholars.

- (k) The Institute shall have the provision to issue Marks Card(s) to the Scholars for the completion of the coursework.
- (l) (i) The Institute shall arrange the course on Research and Publication Ethics (RPE) as often as required and the provisionally registered Scholars shall mandatorily attend the course. The Scholars shall pay the prescribed fees for undergoing the course.
(ii) The Institute examination in RPE shall be conducted along with the other coursework examinations.
- (m) Scholars shall submit the applications with the relevant fees to appear for the Coursework Examination as and when notified by the Institute.

21Ph.D.11.3 Setting up of Coursework Question Papers and Evaluation of Answer Scripts

- (a) Coursework question papers shall be set by the identified examiners appointed for this purpose by the Chairperson, BOE of the concerned.
- (b) Each question paper shall be set for a maximum mark of 100 and it shall have similar format as prescribed for the Master's Degrees of Institute.

(c) The question paper setters and answer script valuers shall have Ph.D. Degree in the relevant field.

21Ph.D.11.4 Evaluation of coursework Answer Scripts

Coursework answer scripts of all the Scholars shall be evaluated independently by two valuers.

21Ph.D.11.5 Averaging of Marks Awarded by the coursework valuers

- (a) If the difference between the marks awarded by the two valuers is $\leq 15\%$, the marks awarded to the Scholar shall be the average of the two valuations.
- (b) If the difference between the marks awarded by the two valuers is $> 15\%$, a third examiner shall be appointed to evaluate the answer script(s) concerned. The average of the marks of the nearest two valuations shall be considered as the marks secured by the Scholar. However, if one of the three evaluations is exactly midway between the other two, then the higher two marks shall be taken for averaging and the resulting average shall be awarded to the Scholar.

21Ph.D.12.0 Periodic Review by the Doctoral Committee and Progress Reports

- (a) The Doctoral Committee shall review the research progress of the Scholar for every six months until the submission of the Thesis.
- (b) Each Scholar shall submit a research progress report in the Institute format to the Doctoral Committee, two weeks prior to the schedule of the meeting. The half-yearly progress report shall cover the aspects such as, new data collected / obtained, techniques developed, progress in research, discussion of the work done during the review period, new findings and work plan for the future. Research papers prepared/published, if any, shall also be submitted.
- (c) The Scholar shall make oral presentation of the research progress before the Doctoral Committee.
- (d) The Doctoral Committee shall communicate the research progress or otherwise of the Scholar to the Research Centers/departments

21Ph.D.12.1 Cancellation of Pre –Registration to Ph.D. programme

- (a) The Doctoral Committee shall be free to recommend the cancellation of Pre – Registration to Ph.D. programme of the Scholar if,
- (i) Two consecutive research progress reports are not adjudged to be satisfactory, and/or
- (ii) Two consecutive research progress reports are not submitted.
- (b) Before recommending the cancellation of registration, the Doctoral Committee shall issue a show-cause notice to the Scholar, seeking his/her explanation.
- (c) If the decision of the Doctoral Committee regarding the cancellation of registration on receipt of Scholar's explanation is not agreeable to the Scholar, he/she shall be free to appeal to the Principal with valid reasons, seeking intervention. The decision of the Principal in this regard shall be final.

21Ph.D.13.0 Comprehensive Viva- Voce (Part – II)

21Ph.D.13.1 Requirements to be satisfied for Comprehensive Viva-Voce

- (a) Scholars shall appear for the comprehensive Viva-Voce before six months from the date of completion of all the courses of the coursework.
- (b) For whatever reason(s), if the comprehensive Viva-Voce is not completed within two years from the date of provisional registration, the admission of the Scholars shall stand automatically cancelled.

21Ph.D.13.2 Scheduling Comprehensive Viva-Voce

The Research Center/department, on receipt of the written request from the Scholar for the conduct of comprehensive Viva-Voce, shall write to the Principal seeking permission for the conduct of comprehensive Viva-Voce.

The Research Center/department, in consultation with the Doctoral Committee, shall schedule the date/time for the comprehensive Viva-Voce on receipt of the written permission from the Principal.

21Ph.D.13.3 Conduct of Comprehensive Viva-Voce

- (a) The Doctoral Committee shall conduct the comprehensive Viva-Voce in English language only.
- (b) The comprehensive Viva-Voce shall be a closed-door oral examination open to the Doctoral Committee members (as examiners), and the Scholar.
- (c) The Doctoral Committee shall be free to invite additional examiner(s) if required for assisting it in the Viva-Voce. The additional examiner (s) shall be chosen, by the Chairperson of the Doctoral Committee, from a panel of two or more experts recommended by the Research Supervisor(s).

21Ph.D.13.4 Content and Form of Comprehensive Viva-Voce

- (a) The Comprehensive Viva-Voce shall consist of a presentation by the Scholar on his/her topic of research, including the work done till date and the proposed future work.
- (b) The Doctoral Committee and the additional examiner(s), if present, shall test the Scholar for fundamental concepts in the coursework and applied knowledge to carry out the proposed research work further.

21Ph.D.13.5 Performance Standards at Comprehensive Viva-Voce

The Doctoral Committee shall communicate the result of the Comprehensive Viva- Voce to the Principal through the Research Center as:

- (a) The Doctoral Committee is satisfied at the successful completion of Comprehensive Viva-Voce and the Scholar shall continue the research work.

OR

- (b) The Doctoral Committee has indicated the deficiencies in specific areas in which the Scholar needs strengthening of knowledge and is suggesting a date preferably within the next three months for Comprehensive Viva-Voce.
- (c) The Doctoral Committee suggests a change in Research area/ Topic/ Research title for consideration.
- (d) If the Doctoral Committee does not recommend the continuation of research work by the Scholar even after the second attempt of Comprehensive Viva-Voce, the provisional registration of the Scholar shall stand cancelled automatically, without the issuance of a notice.
- (e) The recommendation of cancellation of the provisional registration of the concerned Scholar by the Doctoral Committee shall be addressed to Principal.
- (f) On receiving the proceedings of the Doctoral Committee regarding the recommendation of cancellation of the provisional registration of the concerned Scholar, the Principal shall place the same before the Admissions Committee for its considerations and further action.

21Ph.D.13.6 Confirmation of Ph.D. Registration and Notification.

- (a) After the successful completion of coursework (Part-I) and the Comprehensive Viva- Voce (Part-II), the Doctoral Committee, along with all the relevant documents, shall recommend to the Principal for issuance of notification to the Scholar on Confirmation of Registration.
- (b) With the approval of the Admissions Committee, the Principal shall issue a notification.
- (c) The Notification shall specify the date from which the Scholar's registration for the Ph.D. programme is confirmed.

21Ph.D.14.0 Open Seminars, Mandatory Publication of papers and Pre-Submission Colloquium

21Ph.D. 14.1 Open Seminars

- (a) Prior to the submission of the Synopsis covering all the chapters of the Thesis (required under Part-IV), each Scholar shall give two pre-Ph.D. presentations, commonly known as open seminars before the Doctoral Committee at the Research Center.

(i) The first open seminar shall be held only after three months from the date of successful completion of Comprehensive Viva-Voce.

(ii) The second open seminar shall be held only after three months from the date of first open seminar.

(b) These Seminars shall be open to all the faculty members and research Scholars and arranged with the object of getting feedback and comments/suggestions from them, for being suitably incorporated into the Ph.D. Thesis, under the advice of the Research Supervisor/Co-Supervisor.

21Ph.D.14.2 Mandatory Publications

(a) Each Scholar shall publish a minimum of two research papers in UGC Care journals or in journals indexed under SCOPUS/SCI/WoS based on his/her research work for the Ph.D. Degree, prior to the Pre-Submission colloquium and produce evidence for the same, to the Doctoral Committee, in the form of reprint or acceptance letter/s from the Publisher(s) of the Journal.

(b) The Scholars shall also furnish DOI/ORCID/Google Scholar id along with the reprint of published papers or acceptance letter/s from the Publisher(s) of the Journal.

21Ph.D.14.3 Pre-Submission Colloquium

(a) Upon qualifying successfully in the Coursework and the Comprehensive Viva-Voce, and satisfactory research progress followed by Open Seminars, publication(s) in UGC Care journals or in journals indexed under SCOPUS/SCI/WoS, the Scholar shall submit to the Doctoral Committee a Synopsis in English language and conforming to the standard format prescribed by the Institute, at least three months prior to the submission of the Thesis and request for Pre-Submission Colloquium.

(b) The synopsis shall summarize the original research work and findings of the Scholar, including the publications resulting from the Research work.

(c) The Scholar shall present a pre-submission colloquium before the Doctoral Committee, demonstrating his/her preparedness to submit the Synopsis for the process of adjudication.

(d) On satisfactory performance at the Pre-Submission Colloquium, the Doctoral Committee shall be free to permit the Scholar to submit the Synopsis covering all the chapters of the Thesis followed by Ph.D. Thesis. The Synopsis shall be attached with the plagiarism report obtained at the Research Center.

(e) If the performance of the Scholar in the Pre-Submission Colloquium is not satisfactory, the Doctoral Committee may point out the deficiencies, and instruct the Scholar to repeat the Colloquium within two months.

(f) In case, the performance of the Scholar at the second Pre-Submission Colloquium is not also satisfactory, no further chance shall be given to the Scholar to pursue the programme and the registration of the Scholar shall stand cancelled automatically, without issuance of a notice.

21Ph.D.15.0 Submission of Synopsis

(a) On satisfactory performance at the Pre-Submission Colloquium, the Doctoral Committee shall first submit two hard copies and one soft copy (a CD containing the Synopsis in monolithic form as a PDF file) along with the plagiarism report obtained at the Research Center. The synopsis shall also be accompanied with the documents specified in annexure - 4.

(b) Along with the Synopsis, the Research Center shall arrange to forward to the Principal a panel containing details of twelve experts under two groups namely Group –A and Group – B, for adjudication of the thesis as approved by the Doctoral Committee. Each group shall have six Adjudicators. The list of proposed Adjudicators shall not have the names of the domain experts serving the concerned Doctoral Committee.

Group – A: The six Adjudicators shall be from IISc/IITs/IIMs/IIITs/NITs /State Government and Central Government Universities/reputed National Laboratories and National Research organizations within the country.

Group – B: The six Adjudicators shall be, in any proportion, from IISc/ IITs/ /IIMs/IIITs or foreign Universities figuring in top 500 of Times Higher Education (THE) ranking list

and/or Quacquarelli Symonds (QS) World University ranking list.

- (c) While proposing the names of the Adjudicators for evaluation of Thesis, the Research supervisor shall ensure that the Adjudicators belonging to both Group – A and Group – B are involved in active Research in the Research field of the Scholar, and belongs to the following cadre.
- (i) **Adjudicators from IISc/IITs/ IIMs/IITs/NITs /State Government and Central Government Universities:** shall belong to the cadre of Professor or Associate Professor.
 - (ii) **Adjudicators from National Laboratories and National Research Organizations within the country:** Equivalent cadre of Professors or Associate Professors. This shall be supported by a certified copy issued by the concerned authority.
- (d) The proposed panel of Adjudicators, shall be accompanied with at least three papers (documented in peer reviewed journals of repute/UGC Care journals indexed in Scopus/ SCI/ WoS) of each Adjudicator.
- (e) Complete postal address, e-mail address, Telephone/mobile/ fax numbers and the broad area of specialization of each adjudicator along with Open Researcher and Contributor id (ORCID) /Google Scholar id shall be provided in the panel submitted.
- (f) For payment of remuneration, the following details shall also be included.
Adjudicators from India: Bank Account Number, Name and Address of the Bank, Branch, IFSC code, Permanent Account Number (PAN) and Photo copy of the front page of the Bank Passbook.
Adjudicators from abroad: Bank Account Number, name and address of the Bank.

21Ph.D.16.0 Submission of Thesis

- (a) The Thesis submitted by the Scholar shall undergo plagiarism check as per UGC Regulations notified from time to time, before it is sent to adjudicators.
- (b) On verification, that the Scholar has satisfied all the requirements of the Ph.D. programme and has produced all relevant documents and no due certificates, the Principal shall permit the Scholar to submit the Thesis for Adjudication.
- (c) The Scholar shall submit two hard copies and one soft copy (a CD containing the Thesis in monolithic form as a PDF file,) of the Ph.D. Thesis based on the research work conducted in the prescribed format to the Research Center within three months from the date of permission from the Principal for the submission of Thesis. The Thesis shall be accompanied with documents as per Annexure – 5.
- (d) The Scholar shall also pay the prescribed Thesis adjudication fees to the Institute.
- (e) In case the Scholar is unable to submit the Thesis within three months (if three months' period is available within the validity period of the programme) from the date of approval letter from Principal for the submission of the Thesis, he/she shall be free to seek extension of time from the Principal. The letter supported by the recommendations of the Research Supervisor(s) and the Doctoral Committee shall be forwarded through the Research Center.
- (f) For each further extension, within the maximum period of the programme, the Scholar shall pay a penal fee of Rs.2,000/- (Rupees Two thousand only). [To be read with 21Ph.D. 25.0]
- (g) In case, the extension period sought is beyond the maximum duration of the Ph.D. programme, the Scholar shall seek extension of Ph.D. programme duration as per 21Ph.D. 25.0.

21Ph.D.17.0 Adjudication of Ph.D. Thesis

- (a) The intervening period available between the submission of Synopsis and the Thesis by the Scholar shall be used by the Principal for deciding the adjudicators.
- (b) The Principal shall choose one Adjudicator each from Group – A and Group - B for adjudication of the thesis, and the Principal shall send invitation letters to them along with a copy of the Synopsis covering all the chapters of the Thesis.
- (c) Adjudicator's acceptance shall preferably be obtained within one month from the date of invitation, before taking any further steps on the subject.

21Ph.D.17.1 Appointment of Adjudicators to Evaluate the Thesis

- (a) The adjudicators [Research Supervisor, Co-Supervisor, if any, and two more Adjudicators identified as per 21Ph.D. 17.0 (b) and (c) and approved by Principal.] shall be appointed by the Principal to adjudicate the Thesis submitted by the Scholar.

21Ph.D.17.2 Dispatch of Copies of Thesis to Adjudicators

- (a) The Institute shall send softcopy (Hard copy on request) of the Thesis to each adjudicator for evaluation, with a request to evaluate the Thesis and send the evaluation report(s) preferably within a period of three months.
- (b) If the Report is not received from the Adjudicator(s) within this period, a reminder once in a month to that effect shall be sent to the Adjudicator(s) concerned.
- (c) If any adjudicator does not send the report even after three reminders or does not reply to the communications from the Institute, the Principal shall identify and appoint another adjudicator, selected from the appropriate Group - A or Group – B or from outside the Groups A and B under special circumstances.

21Ph.D.17.3 Receipt of Thesis Reports at the Institute

- (a) All the adjudicators shall evaluate the Thesis and send their reports (having at least 250 words in length) independently to the Principal. However, it shall be possible to submit a Joint Report in the case of Research Supervisor and Research Co-Supervisor adjudicating a Thesis.
- (b) The Reports shall include:
- (i) A critical analysis of the work of the Scholar as embodied in the Thesis and an evaluation of the work in terms of its contribution to the advancement of knowledge.
 - (ii) List of questions to be asked or points to be clarified if any, by the Scholar at the final Viva - Voce.
 - (iii) A definite recommendation as to whether the Thesis attains the standard for the award of Ph.D. Degree or not.
- (c) The Adjudicators shall make any one of the following recommendations that the:
- (i) Thesis is accepted in the present form and recommended for the award of Ph.D. Degree.
OR
 - (ii) Thesis needs minor clarifications indicated in the report which need to be clarified by the Scholar at final Viva-Voce and it is recommended for the award of Ph.D. Degree.
OR
 - (iii) Thesis needs minor corrections to be made by the Scholar as indicated in the report, which need to be incorporated in the Thesis and clarified at the final Viva-Voce and it is recommended for the award of Ph.D. Degree.
OR
 - (iv) Thesis needs major corrections as indicated in the report and the revised Thesis to be referred back to the adjudicator concerned for fresh evaluation.
OR
 - (v) Thesis is rejected for the reasons specified in the report and not recommended for award of Ph.D. Degree.

21Ph.D.17.4 Rejection of Thesis, based on Negative Reports

- (a) If both the external adjudicators [other than the Research Supervisor(s)] do not recommend the Scholar for the award of the Ph.D. Degree, the Thesis shall be rejected.
- (b) On receiving the recommendation from the Principal, Principal shall place before the Admissions Committee for its considerations the cancellation of registration of the Scholar to Ph.D. programme in view of the rejection of Thesis by the external Adjudicators.
- (c) With the approval of the Admissions Committee, the Principal shall notify the cancellation of registration of the Scholar to Ph.D. programme on Institute website and intimate the same to Research Supervisor(s), Research Center and the Scholar.

21Ph.D.17.5 Appointment of Additional Adjudicator, if necessary

- (a) The Thesis shall not be accepted for award of the Degree if any one of the Adjudicators [other than the Research Supervisor(s)] finds that the research work is not up to the expected standard, as given in his/her report along with detailed reasons for the same.
- (b) In such a case, another external Adjudicator from Group – B (the third external Adjudicator) shall be appointed by the Principal. Based on this decision, the third external Adjudicator shall be invited for the evaluation process.
- (c) If the third external Adjudicator, after evaluating the Thesis gives a favorable Report, the Principal shall initiate further steps to conduct final Viva – Voce examination.
- (d) If the third external Adjudicator also rejects the Thesis, then the Thesis shall not be accepted and the Ph.D. registration of the Scholar shall be cancelled.
With the cancellation intimation from the Principal, the Principal with the approval of the Admission Committee shall notify the rejection of Thesis to all the concerned.

21Ph.D.17.6 Consideration of Thesis Reports

- (a) On receiving the favourable recommendations from all the appointed adjudicators, the Principal shall arrange to send copies of the Reports received from the adjudicators to the Research Supervisor.
- (b) The Principal shall permit the Research Supervisor(s) to conduct the final Viva- Voce of the Scholar.

21Ph.D.18.0 Scheduling and conduct of Final Viva-Voce

- (a) Prescribed fees shall be paid by the Scholar to the Institute for the conduct of each Final Viva – Voce examination
- (b) The composition of the Viva-Voce Board shall be as specified under 21Ph.D. 6.3.
- (c) The Research Supervisor(s) shall fix the date, time and venue for the Final Viva-Voce in consultation with the members of Board of Examiners for Final Viva – Voce Examination and the Scholar.
- (d) The Research Supervisor(s) shall inform the Principal about the date, time and venue for the Viva-Voce.
- (e) In case, the Institute identified adjudicator informs in writing his / her inability to be present at the scheduled Viva-Voce, the Research Supervisor shall intimate the same to the Principal, who, shall appoint another examiner.
- (f) The final Viva-Voce shall be conducted by the Board of Examiners for Final Viva – Voce Examination at a venue approved by the Principal, which shall, normally be the Research Center in which the research work was carried out.
- (g) The Research Supervisor(s) shall invite the members of the teaching staff and other Research Scholars to attend the Viva-Voce. The Scholar shall make a brief presentation of the research work carried out highlighting the important findings/conclusions.
- (h) After the completion of the presentation, the Research Supervisor(s) shall give opportunity to the invitees to seek clarifications, if any, from the Scholar.
- (i) After this, the Board only shall examine the Scholar to test his/her understanding of the subject matter of the Thesis and seek answers to the written queries by the adjudicators in the Thesis Evaluation Reports, if any. The Scholar shall be required to produce all the documents, data and analysis in support of the research work presented in the Thesis.
- (j) The Board may ask questions beyond the subject matter of the Thesis in order to satisfy themselves that the Scholar has adequate knowledge of the particular branch of the subject on which the Thesis has been submitted.
- (k) On completing the Viva-Voce, the Board shall submit a report to the Principal indicating clearly that,

- (i) The minor clarifications sought, the indicated corrections, and the raised queries in the report of the adjudicator(s) (if any) has/have been addressed satisfactorily, and
 - (ii) The performance of the Scholar was satisfactory and Board recommends the award of the Ph.D. Degree to the Scholar.
- (l) (i) In case, the performance of the Scholar is not satisfactory, the Board shall report accordingly, giving reasons for the same and recommending another Viva-Voce to be conducted after three months.
- (ii) The Principal shall permit another Viva- Voce as required, with the composition of the Board unchanged.
- (m) In case, the Scholar fails to attend the second Final Viva –Voce or if the performance of the Scholar is not satisfactory, the admissions of the Scholar shall automatically get terminated.

21Ph.D.19.0 Consolidated Final Viva - Voce Report

- (a) After successful completion of the Viva-Voce, the Board of Examiners of the final Viva- Voce, shall prepare and forward the Consolidated Report along with duly corrected versions of both the hard and the soft copies of the Thesis through the Research Center to the Principal.

21Ph.D.20.0 Award of Ph.D. Degree

21Ph.D.20.1 Provisional Degree Certificate and award of Degree Certificate

- (a) Upon the approval by the Institute AC/GB, the Institute shall issue a Provisional Ph.D. Degree certificate to the Scholar certifying that the Degree has been awarded in accordance with the MSRIT Regulations Governing the Degree of Doctor of Philosophy (Ph.D.) – 2021.
- (b) The University, with the approval of its authorities, shall award the Ph.D. Degree certificate to the Scholar during the forthcoming Convocation.

21Ph.D.21.0 Maintenance of Registration during the validity period

During the period when the registration of the Scholar is in force, the Scholar shall pay the prescribed tuition and other fees to the Institute at the notified time intervals.

21Ph.D.22.0 Minimum Period for Submission of Thesis by Fulltime Scholars

- (a) Minimum duration of Fulltime Ph.D. programme shall be three (03) years, including the coursework.

Subject to fulfillment of all the prescribed requirements of the programme, all Fulltime Scholars shall be eligible for submission of Thesis after a minimum period of three (03) years from the date of provisional registration.

21Ph.D.22.1 Maximum Period for Submission of Thesis by Fulltime Scholars

- (a) The maximum period for submission of the Ph.D. Thesis by Fulltime Scholars shall be five (05) years from the date of provisional registration.

21Ph.D.23.0 Extension of Maximum Period for Submission of Thesis and other provisions

- a) The Principal shall have the powers to extend the maximum period for submission of the Ph.D. Thesis by such Scholars who are not ready to submit Thesis within the permissible maximum period of the Ph.D. programme.

The extension period shall be one year beyond the maximum period on specific recommendations of the Doctoral Committee forwarded through the Research Center to the Principal on receipt of a request for extension from the Scholar not less than three months prior to the completion of the maximum programme period.

- b) In case the request is not received before three months prior to the completion of the maximum programme period or received after the maximum programme period, Principal shall permit the Scholar to submit the Thesis after paying a penal fee of Rs 10,000/- (Rupees ten thousand only) and extending the maximum period of the programme by one year minus the period lost in

submission of the written request before and after the maximum programme period.

The decision of the Principal in this regard shall be final.

- c) In case of failure of the Scholar to submit the Thesis by the end of the extended period, the registration shall be cancelled without the issuance of notice. [to be read with 21Ph.D. 23.1]

21Ph.D.23.1 Revocation of cancellation of registration to Ph.D. programme due to non-submission of the Thesis within the extended period of Ph.D. programme

- (a) The Scholars, whose Ph.D. registration has been cancelled in view of non-submission of Thesis before the end of extended period of the Ph.D. programme (as per 21Ph.D. 23.0), can request for revocation of the cancellation order within a year from the date of cancellation, by submitting the Synopsis covering all the chapters of the Thesis and the Thesis which are conforming to plagiarism norms of the Institute. The request letter, forwarded by the Research Supervisor(s), shall be addressed to the Principal.
- (b) The Principal shall revive the dissolved Doctoral Committee, with an additional domain expert from IISc/IITs/IIITs/NITs/IIMs, to offer its recommendations regarding the synopsis covering all the chapters of the Thesis and the Thesis for further processing.
- (c) In case, the Doctoral Committee recommends the synopsis covering all the chapters of the Thesis and the Thesis for further processing, the Scholar shall submit the same as per 21Ph.D. 16.0 and 21Ph.D. 17.0 (a) by paying prescribed Institute fees.
- (d) In case the Thesis plagiarism level is found acceptable, the Institute shall initiate the process for adjudication and final Viva –Voce.
- (e) If the Thesis plagiarism level is found unacceptable, the Scholar shall not be given any more chance to resubmit the Thesis and the revocation stands automatically cancelled.

21Ph.D.23.2 Special consideration to women and specially abled Research Scholars

- (a) The Institute shall give special consideration to women and specially abled Research Scholars (> 40 % disability) and give further relaxation of up to two years if the Scholars request for the same with relevant document support.

21Ph.D.24.0 Handling of Issues resulting due to Plagiarism

- (a) The Principal shall have the powers to constitute Expert Committees to investigate into plagiarism issues connected with any Ph.D. Thesis submitted to the Institute, in the case of receipt of complaints either from the adjudicator(s), other individuals or from any other sources before or after the award of Degree.
- (b) In the event of a Thesis being proved to be copied, plagiarized or misrepresented academically, the Institute shall have the powers to rescind the Degree. Such a Scholar shall not be eligible to register for any Degree programme at Institute in future.
- (c) In such cases, notice shall be served to the Research Supervisor(s) for necessary action as decided by the Authorities of the Institute.

21Ph.D.25.0 Depository with UGC and the University

- (a) Following the successful completion of the evaluation process and announcement of the award of Ph.D. Degree, the Principal shall submit a final (corrected) soft copy of the Ph.D. Thesis to the UGC within a period of thirty days for hosting the same on its Information and Library Network (abbreviated as INFLIBNET), accessible to all the Institutions / Universities.
- (b) The Institute shall also maintain a repository of such Ph.D. thesis in its Library.

21Ph.D.25.1 Copyright of the Thesis

- (a) The Institute shall hold the Copyright of all the Thesis after conferring the Ph.D. Degree.

21Ph.D.26.0 Prohibition of Scholars from Registering for any other Degree

No Ph.D. Scholar of the Institute shall be permitted to pursue any other Degree programme within the Institute or at other Universities / Institutions, concurrently with his/her on-going registration as a Scholar for the Ph.D. Degree.

21Ph.D.27.0 Prohibition of Statutory Officers from Ph. D. Registration

The Statutory Officers of the Institute shall not be permitted to register for the Ph.D. Degree of the Institute during the period of their tenure at the Institute.

21Ph.D.28.0 Change of Research Supervisor / Research Co-Supervisor

(a) In unforeseen circumstances like, transfer/voluntary retirement/ resignation / indisposed situation/death of the Research Supervisor and/or Research Co-Supervisor/ legal actions on the Research Supervisor(s) by the administration, etc., the Scholar shall submit a request to the Principal through Research Center/department with the approval of the Doctoral Committee for a change of Research Supervisor/ Research Co-Supervisor.

The request shall be with No Objection Certificates (NOCs) issued from the current Research Supervisor/ Research Co-Supervisor (if, any)/ Department in feasible situations and from the proposed (new) Research Supervisor/ Research Co-Supervisor (if any)/Department.

(b) The change of Research Supervisor/ Research Co-Supervisor shall be permitted, provided,
(i) The field of specialization of new Research Supervisor/ Research Co-Supervisor is pertinent to the field and topic in which the Scholar is pursuing the Ph.D. programme.
(ii) The new Research Supervisor(s) has/have a Research experience of at least three years as Research Supervisor(s).

(c) In such cases, the Scholar shall opt for a Research Supervisor who satisfy 21Ph.D. 28.0 (b) (ii).

(d) In case, the specialization field of new Research supervisor/ Research Co-Supervisor is different from the Scholar's chosen field of research, there may be a change in research direction and may need a new research proposal and/or prescribing of new coursework to continue with the Ph.D. programme.

In such cases, the Principal with the approval of the Admissions Committee, shall permit the change of Research supervisor/ Research Co-Supervisor with new coursework/ additional course/s for completion as per Institute norms without changing the date of provisional registration to Ph.D. programme. In view of the foregoing, the Scholars may have to repeat any one or more of the following;

- (i) Complete the new coursework/ additional course/s
- (ii) Comprehensive Viva – Voce
- (iii) Open Seminars
- (iv) Publication of papers
- (v) Pre-Submission Colloquium

(e) The change shall be considered, case by case, based on the stage at which the change is being sought;

(i) Change is before the completion of coursework.

With the change permitted, the Scholar shall work under the new Research Supervisor/ Research Co-Supervisor as per the Institute prescribed norms following Part -I to Part – IV.

(ii) Change is after the completion of the coursework and before the comprehensive Viva-Voce.

With the change permitted, the Scholar, retaining the same proposed Research field and topic, shall work under the new Research Supervisor(s) as per the Institute prescribed norms following Part -II to Part – IV.

(iii) Change is after the comprehensive Viva-Voce but before Pre - Submission Colloquium.

With the change permitted, the Scholar shall work under the new Research Supervisor(s) for at least one year in case of Fulltime programme (i.e., minimum, maximum or extension period of the programme), to become eligible to submit the Thesis.

(iv) Change is after the Pre - Submission Colloquium.

With the change permitted, the Scholar shall work under the new Research Supervisor(s) for at least one year in case of Fulltime programme within the permissible period of the programme (i.e., minimum, maximum or extension period of the programme), to become eligible to submit the Thesis.

(f) The Admissions Committee shall take suitable decisions case by case following or overruling the clause 21Ph.D. 28.0 (d) and (e) in unforeseen circumstances. In all such cases, the decision of the Admissions Committee shall be final and binding.

(g) Prescribed fees shall be paid by the Scholar to the Institute for the change of Research Supervisor/Co-Supervisor.

(h) In all the above cases, the Research Scholars can carry the research data of research already done, but shall give due credit to the former Research Supervisor/ Research Co-Supervisor and the Institution with its use.

(i) Change of Research Supervisor/ Research Co-Supervisor shall be permitted only once during the Ph.D. programme.

(j) With a change in Research Supervisor or the Research Co-Supervisor, the Doctoral Committee shall be reconstituted.

(k) In case the Research Supervisor or the Research Co-Supervisor goes on leave for more than six months because of various reasons, chairperson of the BoS concerned will look after the Scholar till the return of the Research Supervisor or the Research Co-Supervisor.

21Ph.D.29.0 Handling of Conflict between the Scholar and the Research Supervisor/ Research Co-Supervisor/ Department.

(a) If there is any request to Principal, from any one of the concerned, about the conflict between the Scholar and the Research Supervisor/ Research Co-Supervisor/ Department, the decision of the Principal shall be final in this regard.

(b) The clause 21Ph.D. 28.0 shall be applicable in case the decision results in change of Research Supervisor/Co- Supervisor.

21Ph.D.30.0 Utilization of facilities available at other Research Center/s

(a) The Scholars shall utilize the facilities available at other Research Center by seeking permission by the Principal and the concerned Research Center. In such cases, Scholars shall submit a request to the Principal through Research Center with the approval of the Doctoral Committee for the same.

(b) The Scholar shall execute an undertaking that he/she would adhere to the Rules and Regulations of the Research Center/s.

(c) Prescribed fees shall be paid by the Scholar to the Institute and to the Research Center opted.

21Ph.D.31.0 Change of Thesis Title

(a) Change in title of the Thesis shall be allowed only once and any time before the publication of papers. No change in the title of the Thesis shall be allowed after the pre - submission colloquium.

(b) For a change in title of the Thesis, the Scholar shall submit a request through the Research Center/Department, to the Principal along with the recommendation of Doctoral Committee three months before the colloquium.

(c) The Admissions Committee depending on the merit of the case, shall decide whether, the change in title demands,

i. Additional or totally new coursework to be completed by the Scholar.

ii. The steps to be undertaken/to be repeated, depending on the state at which the change is sought,

such as Comprehensive Viva – Voce, Open seminars, Mandatory Publication of papers, Pre-submission Colloquium, and submission of Synopsis.

- (d) The Admissions Committee shall take suitable decisions case by case and the decision of the Committee shall be final and binding.

21Ph.D.32.0 Cancellation of Registration to Ph.D. programme by the Institute

- (a) The Principal shall issue notice, on receiving the report from the Research center or from any other sources, to the Scholar seeking explanation as to why his/her registration should not be cancelled under any of the following or any other valid reasons:
- i. Unauthorized absence for a period exceeding a month.
 - ii. Nonpayment of fees to the Institute.
 - iii. Research Supervisor expressing his/her inability to continue to supervise because of non-progress of the research work or the Scholar not interacting frequently with the supervisor or for any other valid reasons.
 - iv. Scholar registering to pursue some other Fulltime/Part-Time programme of other University or Organization.
 - v. Fulltime Scholars joining to Fulltime/Part-Time appointment.
 - vi. Involvement in ragging/major act of misconduct and/or indiscipline.
- (b) The concerned Research Scholar shall reply within a month from the date of receiving the show cause notice, failing which his/her registration to Ph.D. programme shall be cancelled.
- (c) The reply from the Scholar or the noncompliance report in case of no reply from the Scholar shall be placed before the Admissions Committee for its considerations. The decision of the Admissions Committee shall be final and binding.

21Ph.D.33.0 Repeal and Savings

- (a) Notwithstanding anything contained in these Regulations, the provisions of any guidelines, orders, rules or regulations in force at the Institute shall be inapplicable to the extent of their inconsistency with these Regulations.
- (b) The Institute shall issue such orders/instructions, and prescribe such format / procedure, as it may deem fit to implement the provisions of these Regulations.

21Ph.D.34.0 Interpretation

- (a) Any question as to the interpretation of these Regulations shall be decided by the Institute, whose decision shall be final.
- (b) The Institute shall have the powers to issue clarifications to remove any doubt, difficulty or anomaly which may arise during the implementation of the provisions of these Regulations.



Annexure - 1

(Corresponding to Research Proposal Presentation under 21Ph.D. 9.0 Pre-Registration Interview)

General Instructions for Pre-Registration Interview

- (a) The scope of Pre- Registration interview to evaluate
 - (i) The Candidate's knowledge and experience in the subject area concerned and his/her preparations to take up the proposed research work.
 - (ii) Whether the research work can be suitably undertaken at the Research Center/ Department
 - (iii) Whether the proposed area of research can contribute to new/additional knowledge.
- (b) The Candidate appearing for the Pre-Registration Interview shall submit the details in consultation with the probable Research Supervisor/s, to the Principal, regarding the
 - (i) Faculty (e.g., Engineering, Applied Science, Management, etc.) in which he/she is desirous of registering.
 - (ii) Specialization for which the Ph.D. Degree to be awarded [Specialization to be selected from the list of faculties (refer to 21Ph.D. 3.0)].
 - (iii) Department in which he/she will be pursuing the research, research area and the topic/title. In case of multidisciplinary research, the main Department in which he/she wants to register to pursue the Ph.D. programme.
 - (iv) Preferably Three name(s) of the Research Supervisors from the Research Center/s.
 - (v) Contribution of proposed research to new/additional knowledge. The work that is being proposed should not have been Researched and published.
- (c) The Candidates appearing for the Pre-Registration Interview shall have to demonstrate to the Committee, how well they are prepared and that they have required competence to pursue the Research. The presentation shall be limited to 10 power point slides.
- (d) A research proposal forms a concise summary of the research project. The Research Proposal shall have,
 - (i) Title Slide: Shall contain proposed Research Topic and name of Candidate.
 - (ii) Literature Review: Highlights of two or three landmark paper.
 - (iii) Problem definition: Background of Research topic, with reference to literature survey, that is leading to the present topic of Research.
 - (iv) Research Methods: A brief description of methods for use to pursue Research.
 - (v) Expected outcomes
 - (vi) Bibliography and references.



Annexure – 2

(Corresponding to 21Ph.D. 9.0 Pre-Registration Interview)

Pre – Registration Interview Performance Marks Sheet – Page 1

Category: Fulltime Ph.D.

Faculty and Specialisation [For details please refer to the overleaf] for which the Candidates have applied				Faculty:							
				Specialization:							
				Category of Candidates: VTU - ETR Exempted (Please tick the relevant)							
				(i) NRI/FN/PIO Candidates. <input type="checkbox"/>							
Maximum Marks for Pre – Registration Interview: 30							Date of Interview				
Sl No	Name of the Candidate	Academic Performance		Paper		International /National /State level Award (s) / Patent (granted or filed)	Participation in Winter school and summer school (WS/SS)/workshops (W/s)/ Faculty Development Programmes (FDPs) / MOOCs(through proctored Examination/s)	NSS/NCC/Red Cross and other social services	Research Proposal		Total Marks
		UG	PG	Publication in Journals	Presentation in conferences				Presentation	Viva-Voce	
		Maximum marks									
A	B	C	D	E	F	G	H	I	J	K	L
		02	02	02	02	02	02	02	10	06	30

Name and Signature
of the Expert Committee members:

Signature
Expert Committee Chairperson

Annexure – 2

(Corresponding to 21Ph.D. 9.0 Pre-Registration Interview)

Pre – Registration Interview Performance Marks Sheet – Page 1

Category: Fulltime Ph.D.

Faculty and Specialisation [For details please refer to the overleaf] for which the Candidates have applied				Faculty:							
				Specialization:							
				Category of Candidates: VTU - ETR Exempted (Please tick the relevant)							
				(i) Candidates qualified in the UGC-NET(including JRF)/ UGC- CSIR NET (including JRF) / SLET / GATE/ CAT or other similar national tests and having qualifying percentile /percentage scores in their respective validity periods. <input type="checkbox"/>							
				(ii) Candidates with M.Phil. Degree or equivalent as recognized by the University. <input type="checkbox"/>							
Maximum Marks for Pre – Registration Interview: 30							Date of Interview				
Sl No	Name of the Candidate	Academic Performance		Paper			Participation in Winter school and summer school (WS/ SS)/workshops (W/s)/ Faculty Development Programmes (FDPs) / MOOCs(through proctored Examination/s)	NSS/NCC/Red Cross and other social services	Research Proposal		Total Marks
		UG	PG	Publication in Journals	Presentation in conferences	International /National /State level Award (s) / Patent (granted or filed)			Presentation	Viva-Voce	
		Maximum marks									
A	B	C	D	E	F	G	H	I	J	K	L
		02	02	02	02	02	02	02	10	06	30

Name and Signature
of the Expert Committee members:

Signature
Expert Committee Chairperson

Annexure – 2

(Corresponding to 21Ph.D. 9.0 Pre-Registration Interview)

Pre – Registration Interview Performance Marks Sheet – Page 1

Category: Fulltime Ph.D.

Faculty and Specialisation [For details please refer to the overleaf] for which the Candidates have applied				Faculty:							
				Specialization:							
				Category of Candidates: VTU - ETR Qualified							
Maximum Marks for Pre – Registration Interview: 30							Date of Interview				
Sl No	Name of the Candidate	Academic Performance		Paper		International /National /State level Award (s) / Patent (granted or filed)	Participation in Winter school and summer schools (WS/SS)/workshops (W/s)/ Faculty Development Programmes (FDPs) / MOOCs (through proctored Examination/s)	NSS/NCC/Red Cross and other social services	Research Proposal		Total Marks
		UG	PG	Publication in Journals	Presentation in conferences				Presentation	Viva-Voce	
Maximum marks											
A	B	C	D	E	F	G	H	I	J	K	L
		02	02	02	02	02	02	02	10	06	30

Name and Signature
of the Expert Committee members:

Signature
Expert Committee Chairperson

Annexure – 2

(Corresponding to 21Ph.D. 9.0 Pre-Registration Interview)

Pre – Registration Interview Performance Marks Sheet – Page 2

(A) Faculty and Specializations

(1) Faculty of Civil Engineering Sciences:

(i) Civil Engineering

(2) Faculty of Mechanical Engineering Sciences:

(i) Mechanical Engineering (ii) Industrial Engineering and Management

(3) Faculty of Electrical and Electronics Engineering Sciences:

(i) Electrical and Electronics Engineering. (ii) Electronics and Communication Engineering
(iii) Electronics and Telecommunication Engineering

(4) Faculty of Computer and Information Sciences:

(i) Computer Science and Engineering (ii) Information Science and Engineering.

(5) Faculty of Technology:

(i) Chemical Engineering (ii) Biotechnology (iii) Medical Electronics Engineering

(6) Faculty of Management:

(i) Management Studies

(7) Faculty of Applied Sciences:

(i) Physics (ii) Chemistry (iii) Mathematics (iv) Master of Computer Applications

(B) Academic Performance (Note: UG: Undergraduate, PG: Postgraduate):

CGPA to Percentage conversion: Percentage = (CGPA – 0.75) x 10

(i) Marks for CGPA ≥ 6.75 (I Class and Distinction) : 02

(ii) Marks for CGPA < 6.75 (II Class) : 01

(C) Publications, Award(s) and Knowledge Enhancing Activities:

(i) Publications in Journal/s: One paper: 01 Mark, More than one paper: 02 Marks.

(ii) Presentation in conference/s: One paper: 01 Mark, More than one paper: 02 Marks.

(iii) International/National /State level Award(s)/Patent (awarded or filed): For any: 02 Marks.

(iv) WS/SS/W/s/FDPs/MOOCs: Any one: 01 Mark, More than one: 02 Marks.

(D) Social Service Activities

Participation in any or all of NSS/NCC/Red Cross and other social services: 02 Marks

(E) Instructions to be followed by the Members of Pre-Registration Expert Committee

- 1) A minimum of two marks shall be allotted to all Candidates who participate in presentation and Viva – Voce.
- 2) Zero marks shall be awarded, in case the Candidates who have not fulfilled the requirements.
- 3) In case of absentees, please mark AB against the total marks.
- 4) After the interview, the Institute shall upload the final marks of the Candidates to the Institute website.



Annexure - 3

[Corresponding to 21Ph.D. 11.1 Ph.D. Programme Coursework]

Number of coursework courses to be completed by the Scholars provisionally registered for Ph.D. programme

Faculty	Specialization	Prescribed number of courses
21Ph.D.3.1 Faculty of Civil Engineering Sciences	Civil Engineering	04
21Ph.D.3.2 Faculty of Mechanical Engineering Sciences	(i) Mechanical Engineering (ii) Industrial Engineering and Management	04
21Ph.D.3.3 Faculty of Electrical and Electronics Engineering Sciences	(i) Electrical and Electronics Engineering. (ii) Electronics and Communication Engineering (iii) Electronics & Telecommunication Engineering	04
21Ph.D.3.4 Faculty of Computer and Information Sciences	(i) Computer Science and Engineering (ii) Information Science and Engineering	04
21Ph.D.3.5 Faculty of Technology	(i) Chemical Engineering (ii) Biotechnology* (iii) Medical Electronics Engineering	04
21Ph.D.3.6 Faculty of Management	Management	06
21Ph.D.3.7 Faculty of Applied Sciences	(i) Physics (ii) Chemistry (iii) Mathematics (iv) Computer Applications	06
*Biotechnology (Engineering / Science : 04 / 06)		



Annexure -4

[Corresponding to 21Ph.D. 15.0 Submission of Synopsis]

Documents to be uploaded along with the submission of Synopsis

On satisfactory performance at the Pre-Submission Colloquium, the Doctoral Committee shall first submit two hard copies and one soft copy (a CD containing the Synopsis in monolithic form as a PDF file) along with the plagiarism report obtained at the Research Center. The synopsis shall also be accompanied with the following documents.

- 1) Photocopy of the Office Order of Ph. D. Registration.
- 2) Photocopy of Coursework Completion Certificate.
- 3) Photocopy of the Comprehensive Viva - Voce Results issued from VTU.
- 4) Photocopy of Approval letter issued from VTU for Change of Title, Research Supervisor(s), Research Center, Inclusion and Omission of Co Guide. (If any)
- 5) Adjudicator format - 1(available in the website of VTU).
- 6) No Dues Certificate from Research Center (issued by Principal in case of academic Institutions / Head or in charge Person at other Research Centers).
- 7) Certificate from Supervisor / Co-supervisor.
- 8) Letter of submission from the Guide/Co-Guide.
- 9) Evidential proof from HOD and Head of Research Center (Principal) for having been conducted open seminar- 1.
- 10) Evidential proof from HOD and Principal for having been conducted open seminar- 2.
- 11) Pre submission colloquium report from Supervisor / Co-supervisor through HOD and Principal.
- 12) Sealed cover containing the Panel of adjudicators. (1
- 13) On line Fee Payment Challan.
- 14) One hard Copy of the Synopsis.
- 15) One CD of the Synopsis.
- 16) Hard Copies of the two or more journal papers published.
- 17) Letter from research Center having checked all residence certificate for Part-Time, as well half yearly progressive reports for both Part-Time and full time scholars.
- 18) To be up loaded all the documents through on line portal before submitting hard copy Change of supervisor, topic extension period, etc.



Annexure -5

[Corresponding to 21Ph.D. 16.0 Submission of Ph.D. Thesis]

Documents to be uploaded along with the submission of Thesis

The Research Center shall forward two hard copies and one soft copy of the Thesis copy (a CD containing the Thesis in monolithic form as a PDF file) to the Principal for taking further steps on it.

The Thesis shall be accompanied with the following documents.

- 1) Certificate from Research Supervisor(s) stating that there is prima facie case for thesis submission at this stage and that the thesis does not contain any work previously submitted for any award of the Degree anywhere.
- 2) Undertaking from the Scholar [certified by the Research Supervisor(s)] stating that,
 - (i) The thesis is based on the individual, original work and is previously unpublished research work.
 - (ii) The thesis is not containing any material infringing on the copyright of any individual/Organization and does not hurt the sentiments of any individual or religion.
 - (iii) The information such as text, tables, equations, diagrams, figures, charts, graphs, photographs taken from various sources has been cited appropriately in the thesis.
 - (iv) The opinions expressed or implied in the thesis is entirely of the Scholar and the Research Supervisor(s).
- 3) Certificate from the Research Center that there are no arrears/dues from the Scholar up to the date of submission of the thesis

