

**REGULATIONS FOR
THE DEGREE OF DOCTOR OF PHILOSOPHY (Ph.D.)
(Revised as on October, 2023)**

Amended December 2025

**REGULATIONS
FOR DEGREE OF DOCTOR OF PHILOSOPHY (Ph.D.)**

PREAMBLE

Sri Ramachandra Institute of Higher Education and Research aims to develop excellence in Medical and Allied Health Sciences Research through a facilitative academic and supportive research environment and linkages with the industry and other reputed institutions. It further aims to become a world class Institution contributing towards teaching, research, and health care service delivery. Consistent with the goal to promote pioneering research in health care, the faculty comprises a team of highly qualified and dedicated persons, who have a proven record of meritorious accomplishments to their credit.

The Regulations for the Degree of Doctor of Philosophy (Ph.D.) provide for Ph.D. Program in different branches of Medicine, Dentistry, Pharmacy, Nursing, Physiotherapy, Allied Health Sciences, Biomedical Sciences & Technology Public Health, Management, Sports & Exercises Sciences, Clinical Research Occupational therapy, Speech Language and Pathology, Behavioural and Social Sciences and Engineering & Technology at Sri Ramachandra Institute of Higher Education and Research (Deemed to be University). Several Centres of Research are also active on campus. These revisions in the regulations seek to widen the opportunity to gain a doctoral degree and promote interdisciplinary, translational and innovative research thrust in line with Institution's long-term objectives.

These Regulations are in conformity with the UGC (Minimum Standards and Procedure for Award M.Phil./Ph.D. Degree) Regulations,2022 and UGC guidelines communicated from time to time. The present amendments to the Regulations December 2025 is based on the thorough review of the Ph.D. Regulations (2023) of the Deemed University.



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REGULATIONS FOR THE DEGREE OF DOCTOR OF PHILOSOPHY (Ph.D.)

In exercise of the powers conferred by Clause 19 of the Memorandum of Association & Rules and Clause 2(cc) of Bye-Laws of Sri Ramachandra Institute of Higher Education and Research (Deemed to be University), Porur, Chennai-600116, the Academic Council of the Deemed University hereby makes the following Regulations, in conformity with University Grants Commission (Minimum Standards and Procedure for Award of Ph.D. Degree) Regulations, 2022 and UGC guidelines communicated from time to time:-

1. Short Title and Commencement

These Regulations shall be called "THE REGULATIONS FOR THE DEGREE OF DOCTOR OF PHILOSOPHY (Ph.D.) OF SRI RAMACHANDRA INSTITUTE OF HIGHER EDUCATION AND RESEARCH (DEEMED TO BE UNIVERSITY).

These revised regulations shall come into force with effect from Oct, 2023 and are subject to such modifications as may be approved by the Academic Council from time to time.

2. Eligibility Criteria and Faculty for admission to Ph.D. Program

Sl. No.	Name of the Faculty	Eligibility Criteria
1.	Faculty of Medicine	a) A candidate who has passed D.M./M.Ch./M.D./M.S./PG Diploma in the Faculty of Medicine/Diplomate in National Board (DNB) qualification/M.Sc. (Medical) Degree in the concerned subject with at least 55% marks in aggregate in PG Programs from an NMC recognized institution. b) A candidate holding MBBS degree within two years of completing their Degree from NMC recognized medical colleges, passing all MBBS examinations in the first attempt with 60% or more aggregate marks from an institute which is recognized by the National Medical Commission and holding ICMR Nurturing Clinical Scientists (NCS) Scheme Fellowship.
2.	Faculty of Dental Sciences	a) A candidate who has passed Master's Degree in Dental Surgery (MDS) examination in different branches/specialities with at least 55% marks in aggregate in PG Program. b) BDS candidates within two years of completing their Degree, passing all BDS examinations in the first attempt with 60% or more aggregate marks from an Institute which is recognized by the Dental Council of India and holding ICMR Nurturing Clinical Scientists (NCS) Scheme Fellowship.
3.	Faculty of Pharmacy	A candidate who has passed a Master's Degree in Pharmacy (M.Pharm.) Examination in various branches/specialities/Pharm.D. with at least 55% marks in aggregate or its equivalent grade in the UGC 10 point scale or any equivalent grade in PG Program.

4.	Faculty of Nursing	For the details in regard to Ph.D. in Nursing – Please Refer Annexure - X
5.	Faculty of Physiotherapy	For Eligibility Criteria Please Refer Annexure - IX
6.	Faculty of Allied Health Sciences	<p>A candidate who has passed Master’s Degree in / Respiratory Therapy/Clinical Immunology/ /Urology Technology/Applied Child Development/Perfusion Technology/ /Medical Imaging Technology/Medical Laboratory Technology/Neuroscience/ other Health Sciences which are not covered under Medical, Dental, Nursing and Physiotherapy with at least 55% marks in aggregate or its equivalent grade in the UGC 10 point scale or any equivalent grade in PG Program.</p> <p>The Eligibility Criteria for the PhD in Medical Radiology and Imaging Technology, Trauma Care Management, Renal Sciences and Dialysis Technology, Clinical Nutrition, Optometry, Anesthesia and Operation Theatre Technology, Health Information Management and Physician Associate - Please refer Annexure - IX (Programs under NCAHP, 2021 – as on 17.12.2025)</p>
7.	Faculty of Biomedical Sciences and Technology	<p>A candidate who has passed Master’s Degree in Biomedical Sciences/ Biotechnology/Human Genetics/Bioinformatics/Applied and Regulatory Toxicology/ Life Sciences/Zoology/Animal Sciences/Biological Sciences/Botany/Biochemistry/ Microbiology/Plant Sciences/Veterinary Sciences/Forensic Sciences/Regenerative Medicine/Environmental Sciences/Molecular Biology/Biophysics with at least 55% marks in aggregate or its equivalent grade in the UGC 10 point scale or any equivalent grade in PG Program.</p>
8.	Faculty of Public Health	<p>A candidate who has passed Master’s Degree in Public Health/Environmental Health Sciences/Allied Health Sciences/Environmental Sciences/Environmental Health and Safety/Industrial Hygiene and Safety/Chemistry/Epidemiology/ Biostatistics/SocialWork/Nursing/Pharmacy/Physiotherapy/Psychology/Health Systems Management/Artificial Intelligence/Data Science/Medical Informatics/ Life Sciences, Master’s Degree in Chemical/Mechanical/Environmental/Computer/ Civil/Electric and Electronic Engineering and/or Technology, Master’s in Medical and Dental Sciences with at least 55% marks in aggregate or its equivalent grade in the UGC 10 point scale or any equivalent grade in PG Program.</p>
9.	Faculty of Management	<p>a) A candidate who has passed Master’s Degree in Business Administration/ Management/PG Diploma in Management recognized as equivalent to MBA by AICTE; or</p> <p>b) Has Professional Qualification such as CA/ICWA/CFA/CS (either 5 year integrated or 3 years after graduation).</p> <p>with at least 55% marks in aggregate or its equivalent grade in the UGC 10 point scale or any equivalent grade in PG Program.</p>

10.	Faculty of Sports and Exercise Sciences	A candidate who has passed Master's Degree in any field of Sports & Exercise Sciences, Physiology, Nutrition, Psychology, Biomechanics, Strength & Conditioning or equivalent/(MD Sports Medicine/MPT-Sports/MPT-Ortho) with at least 55% marks in aggregate or its equivalent grade in the UGC 10 point scale or any equivalent grade in PG Program.
11.	Faculty of Clinical Research	Candidates with Master's Degree in Clinical research or meeting eligibility criteria as prescribed in Faculty of Medicine, Dental Sciences, Physiotherapy, Allied Health Sciences, Nursing with at least 55% marks in aggregate or its equivalent grade in the UGC 10 point scale or any equivalent grade in PG Program.
12.	Faculty of Engineering & Technology	<p><u>Ph.D. in Computer Science and Engineering</u></p> <p>A candidate who has passed M.Tech./M.E./ M.S in disciplines of Engineering, Technology, Information Technology, Computer Science and Engineering, with at least 55% marks in aggregate or its equivalent grade in the UGC 10 point scale or any equivalent grade in PG Program.</p> <p><u>Ph.D. in Computer Science</u></p> <p>A candidate who has passed M.Sc./MCA in disciplines of Computer Science, Bioinformatics, Computer Applications, with at least 55% marks in aggregate or its equivalent grade in the UGC 10 point scale or any equivalent grade in PG Program</p>
13.	Faculty of Audiology and Speech Language Pathology	A candidate who has passed M.Sc. (Speech & Hearing) /M.ASLP /M.Sc.(SLP) /M.Sc. Audiology or any other equivalent PG degree in Speech Language & Hearing Sciences from a RCI recognized training program/Speech & Hearing PG degree obtained elsewhere recognized by this University with at least 55% marks in aggregate or its equivalent grade in the UGC 10 point scale or any equivalent grade in PG Program.
14.	Faculty of Occupational Therapy	For Eligibility Criteria Please Refer Annexure - IX
15	Faculty of Behavioural and Social Sciences	A candidate who has passed Master's Degree in Psychology/ Mind Body and Lifestyle Science/Social work/humanities with at least 55% marks in aggregate or its equivalent grade in the UGC 10 point scale or an equivalent grade in PG Program.

2.1. A candidate who has passed an Bachelor Degree Program with 4 years/8 semesters of study with a minimum of 75% marks in aggregate or its equivalent grade on the 10 point scale of grading system. Such candidates will be registered as a Full-time Scholar only. This clause will be governed by PhD regulations from statutory body for a program wherever applicable.

2.2. Candidates who have received their 1-year/2 semester Master Degree after 4 year/8 semester bachelor's degree program or 2-years/4 semester Master's degree program after a 3-year bachelor's degree program or a qualification declared equivalent to the master's degree program by the corresponding statutory regulatory body with at least 55% marks in aggregate or its equivalent grade in a 10 point scale wherever grading system is followed.

- 2.3. Further relaxation of 5% marks i.e. from 55% to 50% or an equivalent relaxation of grade, may be allowed for those belonging to SC/ST/OBC (non-creamy layer)/ persons with disabilities (more than 40% disability).
- 2.4. Candidates holding recognized/approved Postgraduate Degrees offered under UGC (ODL Regulations, 2020) registered with Distance Education Bureau are eligible to apply for Ph.D. Program offered at SRIHER (DU) in accordance with the eligibility criteria listed in clause-2. Proof of recognition/approval shall be provided by the Candidate.
- 2.5. Candidates who have received their Master Degree from Foreign Universities/ Educational Institutions accredited by an Assessment and Accreditation Agency which is approved, recognized or authorized by an authority, established or incorporated under a law in its home country or any other statutory authority in that country for the purpose of assessing, accrediting or assuring quality and standards of educational institutions. Such candidates will have to produce a certificate of recognition/ equivalency by the Association of Indian Universities (AIU) as equivalent to the corresponding Indian degree for the purpose of higher education.
- 2.6. The Ph.D. Scholars registered for Nursing shall abide by the Indian Nursing Council Ph.D. Guidelines wherever applicable (approved by the Academic Council in its 46th Meeting held on 19.11.2025).

3. Categories of Ph.D. Program

- 3.1. Candidates can register for admission to Ph.D. program under one of the following categories:-

Full-Time Category

- 1) Founder-Chancellor Shri. N.P.V.Ramasamy Udayar Research Fellows;
- 2) National Fellowship Holders/Project Fellows;
- 3) Self-Funded (Non-Stipendiary);
- 4) Integrated (PG-Ph.D. and others);and
- 5) Split Ph.D. Program.

Part-Time Category

- 6) Part Time (Internal);
- 7) Part Time (External);and
- 8) Part Time (Internal Independent).

3.2. Full Time Candidates

3.2.1. Founder-Chancellor Shri. N.P.V.Ramasamy Udayar Research Fellows

Candidates who qualify in Sri Ramachandra Ph.D. Entrance Examination (written test and interview) shall be eligible for the Ph.D. Program Full-Time on campus with stipend for 3 years. For D.M./M.Ch./M.D./M.S./DNB Qualifications / M.Tech./M.E in Technology, Engineering, Computer Science, Information Technology, Engineering Management or Technology Management Candidates with stipend for 2 years.

3.2.2. National Fellowship Holders/Project Fellows

Candidates qualified through "Category-3" eligibility of National Eligibility Test (Ref.No.F.4-1 (UGC-NET Review Committee/2024 (NET)/140648 dated March 27, 2024) are exempted from appearing for Entrance Examination and shall be called for interview conducted by the University.

Candidates who have qualified through other UGC recognized national eligibility test

with a valid fellowship for Ph.D. admission at the time of entrance exam, are exempted from appearing for Entrance Examination and shall be called directly for counseling.

3.2.3. Self-Funded (Non-Stipendary)

Candidates who qualify in Sri Ramachandra Ph.D. Entrance Examination (written test and interview) shall complete the Ph.D. Program Full-Time on campus. Registration will be cancelled if the candidate leaves or joins another institution/ employment. The candidate may join an ongoing project related to their Ph.D. research area as a research assistant/JRF/ SRF in this institution with prior approval of the RAC and Dean (Research). This category is subject to willingness of the Supervisor and necessary approval of the Dean (Research) and Vice-Chancellor.

3.2.4. Integrated (PG-Ph.D. and Others);

(i) Integrated MD/MS - Ph.D.

- a) In this sandwich Ph.D. program scholars during the time of admission to MD/MS courses shall exercise their option to undergo the Integrated Ph.D. program and file the necessary application for registration within TWO months of their admission to the postgraduate programs through Dean (Research).
- b) There shall be a selection process through interview by the Ph.D. Admission Committee along with invited national level experts, which may include those from funding agencies such as ICMR.
- c) Integrated Ph.D. Full-Time program is evolved with minimum period of FIVE YEARS duration and maximum period of SIX YEARS.
- d) The curriculum for the first three years would be the same as that of M.D./ M.S. curriculum currently approved/modified from time to time by National Medical Commission (NMC). The scholar will take the Part-I Research Methodology Examination at the end of the second year of the postgraduate program. They will indicate the broad field of research during the second year of the postgraduate program and the Dissertation for the MD/MS postgraduate examination may form a part of their Ph.D. thesis to be submitted later.
- e) Except for the above all the provisions of the Ph.D. regulations will be applicable for scholars enrolled in the integrated Ph.D. program.

(ii) Integrated PG-Ph.D. (All postgraduate degree other than M.D./M.S.)

The integrated (PG-Ph.D.) Program may also be made applicable to other scholars undergoing the Master's Programs in other faculties subject to framing regulations for the same.

(iii) Integrated Ph.D. Engineering & Technology:

Candidates who hold a B.Tech. /B.E. degrees with an average of 75% marks or above from this or other recognized universities may be considered for an integrated Ph.D. in Engineering and Technology. The minimum required time for a full time student to complete the Ph.D. degree shall be four years. Integrated Ph.D. candidates shall take six extra courses at the postgraduate level

compared to the regular Ph.D. candidates to develop breadth and depth of knowledge in the field of study.

3.2.5. Split Ph.D. Program

- a) The Split Ph.D. program for full time candidates is designed to provide a chance to the scholar to conduct a portion of their Ph.D. Work in a recognized Foreign University/Institution or a recognized Indian University with which Sri Ramachandra Institute of Higher Education and Research (Deemed University) has signed a Research MoU for the Split Ph.D. Program.
- b) The eligibility, admission procedures, duration, "Research Methodology and Course work examination", functions of Research Advisory Committee, research methodology examination, thesis submission and valuation of thesis shall be the same as per the general Ph.D. regulations of this Deemed University.
- c) The Ph.D. Scholar shall be permitted to conduct a part of the research at partner institution upon completion of the "Research Methodology and Course work examination" examination and obtain their confirmation of provisional registration. The minimum period of research that can be conducted with the partnering institution shall be 6 months. In case the scholar has spent longer than one year outside this University only one year shall be considered for the purpose of calculating the minimum duration of research program.
- d) The expert under whom the scholar proposes to work for the split Ph.D. Program shall be suggested by the Research Supervisor as a Co-Supervisor and he/she would also be a member of the Research Advisory Committee.
- e) The progress report of work done by the scholar in the external institution shall be submitted to the Academic Officer through the Research Supervisor by the External Expert/Co-Supervisor once in six months during the entire period of work under the split Ph.D. program.
- f) All financial commitments required for carrying out the research work at the partnering institution shall be borne by the scholar concerned or as per the terms of the MoU.
- g) On successful completion, the degree would be awarded by Sri Ramachandra Institute of Higher Education and Research (Deemed to be University) only with a mention of the name of partnering institution under the split Ph.D. program.
- h) In awarding the degree, this university shall recognize the work done at the partner University by indicating that part of the work for Ph.D. was done at the partner university.

3.2.6 Full-Time Ph.D. Candidate must be involved in teaching/lab supervision/ research guidance to students or enrolling in pedagogy related courses or similar academic work amounting to 36 hours per year. The Guide must provide records for such work along with the six monthly report.

3.3. Part Time Research Candidates

3.3.1. Part-Time (Internal)

- a) A candidate who fulfills the regulations as per the qualifications specified in the Regulations (Clause-2) and working in this Deemed University as teaching faculty/researcher in a Department/Constituent College/Research Centre of this Deemed University to register himself/herself as a part time scholar

(internal) for Ph.D. Degree. They should possess at least one year of continuous academic experience on the date of provisional registration.

- b) Those who are working in this Deemed University employed in Clinical Training/Clinical Pharmacist/Administration/Technical/Non-Teaching full time Staff with 1-year of continuous experience may apply as Part-Time internal candidate on approval of their concerned Dean/Principal/ HoD, etc.
- c) Attendance requirement: Part time internal candidate shall be required to work under the Research Supervisor directly for 30 days in a year for instruction/discussion etc. during the prescribed period of research work.
- d) Internal non-faculty candidate must be involved in teaching/lab supervision/research guidance to students or enrolling in pedagogy related courses or similar academic work amounting to 36 hours per year. The Guide must provide records for such work along with the 6 monthly report.

3.3.2. Part Time (External)

- a) Candidates may be permitted to register for the Ph.D. program on a part-time basis as external candidates if they satisfy the following:-
 - (i) Any one of the qualifications prescribed under Clause-2 of the Regulations.
 - (ii) Full time regular employee with one year of continuous experience on the date of provisional registration, as a teacher/scientist/researcher/professional in National/State level institutions/Laboratories/Research and Development Centres/Industries/Universities and they shall submit 'NOC' from the institution/organization where they are employed and also for carrying out their Ph.D. work. The candidate must submit yearly proof of continuing the employment in the same organization with a service certificate.
 - (iii) Self-employed individuals and consultants will be considered for admission to Ph.D. Program as Part-Time External Ph.D. Candidates on the recommendation of the proposed Supervisor and prior approval of the Dean (Research) and Vice-Chancellor. The candidate is expected to provide the details of site of research and research infrastructure. (Ref clause 7.1 also). Candidates must provide documents supporting their research activity along with their six monthly report. Report could be a self-declaration or approved by relevant authorities wherever possible.
- b) Attendance requirement: External candidates are expected to do research in their place of employment/research and in addition, should undergo such course work, examinations and research work as may be prescribed for 30 days in a year during the research period directly under the Research Supervisor at this University. The Research Supervisor at this Deemed University and Research Co-Supervisor of the candidate shall submit the certificate of attendance (with dates) along with six monthly progress reports within the stipulated time frame.
- c) Candidate must be involved in teaching/lab supervision/research guidance to students/ enroll in pedagogy related courses or similar academic work amounting to 36 hours per year. The Guide must provide records for such work along with the 6 monthly report.

3.3.3. Part Time (Internal Independent Research)

- a) A Head of the Department/Professor/Additional Professor/Associate Professor who is working in any department of this University with not less than fifteen years of teaching experience of which at least five years shall be at the PG level and having a minimum of three research publications in peer reviewed indexed(Scopus/Web of Science/PubMed) as first or corresponding author, is eligible to register for the Ph.D.Degree without a supervisor as "Part time Independent Research Candidate".
- b) The Ph.D. Admission Committee will assess the applications received from the Part-Time Independent Research candidates and recommend the selected candidates for provisional registration. The selected candidates are exempted from appearing for Entrance Examination.
- c) Such candidates shall seek the guidance/assistance of not less than three experts in the field concerned, who shall be faculty members not below the rank of Associate Professor and possess the qualifications and eligibility prescribed by the Deemed University for being a Supervisor. They shall serve as members of the Research Advisory Committee and one shall be the Convener of the committee as may be indicated by the candidate.
- d) He/she shall not serve as Supervisor/Co-Supervisor/RAC Member for another candidate while registered as a Ph.D. candidate.
- e) He/She will abide by all regulations as applicable for part-time internal candidates.

3.4. Requirements for Inter-disciplinary research in Ph.D.

PhD can be pursued with resources and skills across two disciplines only. PhD scholar must have post-graduation in any one of the discipline or must have competency in one of the disciplines. The competency must be proved and supported by certification/ diploma/credits in the post-graduate studied. The supervisor must accept the level of competency in the discipline to do research at the level of PhD. This must be presented in writing by the candidate and approved by the supervisor with relevant supportive documents. The letter must state that the competency is adequate for the research at the level of PhD. The letter request must be accepted by Dean (Research) to accept the application and register the candidate for PhD with the requested discipline for research.

The scholar must identify the supervisor for one of the discipline of research. Research Co-Supervisor must be from the other discipline of interest. The candidate must provide the form (Annexure) for inter-disciplinary research filled and signed before proposal presentation to Academic office.

4. Registration Sessions

There shall be two sessions in each year for provisional registration of candidates admitted for the Degree of Doctor of Philosophy (Ph.D.) 1st April and 1st October. Those candidates who fulfill all the criteria for provisional registration as per Clause-2 of the Regulations (including those candidates who hold approved scholarships/fellowships) shall attend the counselling session in person at the Deemed University campus.

5. Procedure for admission to Ph.D. Program including International candidates

- 5.1.** Candidates wishing to apply for admission to Ph.D. program under Full-Time, Self-Funded, Split Ph.D. Scholars and Part-Time (internal and external) categories will have to qualify through entrance examination.
- 5.2.** The entrance examinations shall comprise of a written test and interview which may be held online or in person at the Deemed University.
- 5.3.** The Dean (Research) will constitute the Ph.D. Admission Committee for scrutiny of applications and for conducting interviews for provisional admission of candidates for the Ph.D. Program. The Admission Committee will have representatives from faculties/ disciplines concerned as needed.
- 5.4.** Candidates who are holding Fellowships as mentioned in Clause No. 3.2.2. are exempted from appearing for Entrance Examination and they will be called directly for counseling.
- 5.5.** Qualifying marks for provisional admission for Ph.D. Program : Performance of all candidates will be assessed on written test (70% weightage) and interview (30% weightage). The qualifying marks for provisional admission to Ph.D. program are 50% in the entrance examination (i.e. aggregate of marks obtained in written test and interview taken together). However, a relaxation of 5% of marks (from 50% to 45%) shall be allowed for the candidates belonging to SC/ST/OBC (Non-Creamy layers)/persons with disabilities in the entrance examination.
- 5.6.** The marks obtained in the entrance examination are valid only for two consecutive admission sessions from the date of qualifying in the Entrance examination.
- 5.7.** Those candidates who fulfill all the criteria for provisional registration as per regulations (including those candidates who hold approved scholarships/ fellowships) will be called for counseling. Counselling will be held at the Deemed University campus and those eligible will be notified to attend the counseling on the specified date and time.
- 5.8.** During Counselling, Founder-Chancellor Shri.N.P.V.Ramasamy Udayar Fellowships will be offered to full-time eligible candidates and guidance to identify Research Supervisors will also be provided to the candidates.'
- 5.10.** After counseling all the eligible candidates will be issued 'application for Provisional Registration' for Ph.D. program.

6. Application for Provisional Registration (Common to all Candidates)

- 6.1.** A candidate applying for provisional registration shall submit an application complete in all respects along with the prescribed fee, within the stipulated time.
- 6.2.** While submitting the application the candidate shall indicate the supervisor and faculty in which they wish to register for the Ph.D. program vide Clause - 2.
- 6.3.** Every candidate recommended by the Ph.D. Admission Committee for provisional registration, after satisfying the requirements prescribed under these Regulations shall, after approval by the Vice-Chancellor, will be provisionally registered for the Degree of Doctor of Philosophy (Ph.D.). This letter of provisional registration shall

be issued by the Academic Officer.

- 6.4.** Foreign Nationals have to obtain a 'Research Visa' as per the provisions of the MHRD/UGC FRRO for enrolling in a Ph.D. program. The letter of provisional registration can be used for application for issue of Research Visa. The Office of the International Relations will provide assistance for obtaining Research Visa. All the scholars need to submit C-form online (as and when they take up accommodation in hostels inside the University campus) and other forms through e-FRRO online portal, Govt. of India.
- 6.5.** The list of provisional registered candidates, with full details, shall be placed before the next meeting of the Academic Council for ratification and placed before the Executive Council for information.

7. Recognized Institutions for Ph.D. Program

Every candidate who has registered for the Degree of Doctor of Philosophy (Ph.D.) shall pursue research under the supervision of a Research Supervisor in any one of the following Departments/Institutions, wherever applicable recognized by the Deemed University, namely:-

- a) Any Department of this Deemed University.
- b) Postgraduate Departments of recognized Universities or Colleges situated within the country or outside the country having necessary facilities and which have been offering the postgraduate program in the branch of study concerned for a minimum period of THREE years.
- c) All India Research Institutions, Regional Research Institutions, other Non-teaching Research Institution, Health Care Institutions/organization and industries (India and abroad) having necessary facilities for carrying out research in the branch of study concerned.
- d) Site of research that does not cover under the clause a,b, and c shall have the facilities required for the intended research, and shall be existing administratively for at least 5-years, shall have relevant documents supporting its registration as an institution/ facility/centre as per the government requirement.
- e) The Institution concerned shall issue a No Objection Certificate stating that
 - (i) candidate is permitted to pursue research leading to Ph.D. Degree from this Deemed University on a part time basis while continuing in employment; and
 - (ii) will provide access to the facilities as needed for carrying out proposed Ph.D. research.

8. Qualifications for Research Supervisor/Research Co-Supervisor/Research Advisory Committee Member

- 8.1.** All scholars will necessarily have a research supervisor from this Deemed University
- 8.2.** A full time faculty/researcher desiring to be a recognized Research Supervisor/ Co-supervisor/Member of Research Advisory Committee, shall apply in the prescribed application [vide **Annexure-I** for medical and **Annexure-II** for non-Medical]. This shall be approved by the Dean (Research) and duly intimated. List of recognized supervisors of this Deemed University under each faculty, their area of research interest and number of research scholars registered under them will be displayed at the University Website.
- 8.3.** To be recognized as a Research Supervisor/Co-Supervisor/Member of RAC for the Ph.D. the faculty/researcher shall have qualification, experience and publications as described below:-

Qualification	Teaching/Research experience after highest degree	Number of Publications in peer reviewed indexed (Scopus/ Web of Science/ PubMed) journals**
Ph.D.*	1 year Post Ph.D. Experience	Professor/ Asso. Professor – 5 Assistant Professor - 3
DM/M.Ch./DNB in Super-Speciality	2 years	
MD/MS/DNB/MDS	4 years	
Engineering and Technology		
Ph.D./D.Engg./DBA	2 years as an Asst. Prof./ Research Scientist or higher rank	Professor/ Asso. Professor – 5 Asst. Professor - 3

* For Ph.D. Supervisors in Nursing refer INC guidelines.

* A faculty who is employed at this Deemed University with 5 years of Postgraduate Teaching Experience with publications as mentioned above on qualifying for the Ph.D. Degree, can immediately serve as Supervisor to guide Ph.D. Scholars. They do not require 1 year of Post Ph.D. experience to be recognized as a Research Supervisor.

**Full-text peer reviewed indexed conference proceedings can be accepted as one of the publication. One of the publication must be a original research article where the Supervisor applicant is a first author / Corresponding Author.

Provided that in area/disciplines where there is a no or only a limited number of Peer-reviewed or refereed journals, the HEI may relax the above condition to recognize a faculty as a research supervisor with reasons recorded in writing. The same guideline shall be applied in the appointment of Co-Supervisor/Member of RAC.

- 8.4. An Professor/Associate Professor/Assistant Professor can guide up to eight (8)/ Six(6)/ four (4) Ph.D. scholars respectively, at any given time. At any point of time this number shall not be exceeded either as a supervisor or co-supervisor. Each Supervisor can supervise up to Two (2) international research scholar on a supernumerary basis over the above mentioned number of candidates.
- 8.5. For the purpose of reckoning the number of candidates (both full-time and part-time) under a Research Supervisor (or Co-Supervisor) those candidates who have submitted their synopsis of the thesis to the Controller of Examinations, shall not be taken into account.
- 8.6. Researcher/Teachers, who are reemployed at this Deemed University after their superannuation and satisfying the conditions prescribed for recognition as Research Supervisors, may be permitted to supervise Ph.D. scholars (full-time and part-time).
- 8.7. In the event of Research Supervisor leaving the institution, the guide-ship shall be changed to the Faculty of the Deemed University in the RAC committee or a suitable Guide will be appointed from the Faculty of the Deemed University. The Research Supervisor shall retain the guide-ship for the candidate if the candidate has submitted the synopsis.
- 8.8. If the scholar can request for change of supervisor specifying the reasons for such change. A member of the RAC or any other eligible faculty/researcher may be appointed as Supervisor/Co-Supervisor by the Dean (Research). The candidate

should be open for changes in the protocol or title or part of the research as per the recommendations of the newly appointed supervisor.

- 8.9.** The maximum age limit for a Research Supervisor to enroll/supervise a Ph.D. Candidate is 65 years of age. It may be extended beyond 65 years in exceptional cases of expertise, provided he/she is associated with the Deemed University in a Teaching/research position, as recommended by the Dean (Research) and approved by the Vice-Chancellor.
- 8.10.** A research supervisor shall not undertake to offer guidance for Ph.D. work to any of his/her first degree relatives.
- 8.11.** Faculty pursuing Ph.D. in any institution shall not offer to serve as Supervisor/ Co-Supervisor at this Deemed University for any PhD scholar.
- 8.12.** A faculty of this DU can act as a supervisor for only those candidate registered for Ph.D. in this Deemed University. They can take role only as Co-Supervisor/RAC Member for a Ph.D. registered in other institutions.

9. Research Advisory Committee

- 9.1.** There shall be a three member Research Advisory Committee consisting of Research Supervisor (as Convener), Co-Supervisor (wherever applicable) and RAC member(s) for each research scholar constituted by the Vice-Chancellor based on the recommendations of Dean (Research) drawn from the panel of four to five members submitted by the Research Supervisor. All proposals that include/involve human/ animal subjects or clinical applications shall include a clinician (from medical/dental faculty) as a member. Every RAC must have at least one external member. In exceptional cases, a fourth member may be inducted based on the requirement, as recommended by the Dean (Research) and approved by the Vice-Chancellor.
- 9.2.** All scholars will necessarily have a research supervisor from this Deemed University. Part Time external candidates will also have an External Research Co-Supervisor/ RAC member from the institutions/industry/research institutions where they are employed. In the event of non-availability of Co-Supervisors/ RAC member from the same institution a researcher with relevant expertise preferably in institutions in close proximity, can be proposed as a co-supervisor/ RAC member.
- 9.3.** Full time and Part time internal scholars who are carrying out interdisciplinary research shall have, in addition, a RAC member from the other specialization (internal or external).
- 9.4.** Within 3 months of admission, the research supervisor as per clause 9.1 above shall submit to the Academic Office a list of members to constitute the Research Advisory Committee for each candidate for approval by Dean(Research)/Vice-Chancellor.
- 9.5.** Any subsequent change with valid reasons in the membership of the Research Advisory Committee shall be effected on the recommendation of the Dean (Research) and on approval by the Vice-Chancellor.
- 9.6. Functions of the Research Advisory Committee:**
 - 9.6.1.** The Research Advisory Committee shall monitor the research work and guide scholars for their course work for completion of "Research Methodology and Course work examination". They shall prescribe required syllabus and framing of research proposal.

9.6.2. The meetings of the RAC may be held at the Deemed University campus or in a hybrid mode via teleconference. The RAC shall meet at least bi-annually (period from April to September & period from October to March). The RAC shall recommend the satisfactory progress or NOT of a scholar in the minutes submitted along with the 6 monthly progress report.

9.6.3. The RAC shall conduct the "Research Methodology and Course work examination" examinations for Papers III, IV & V (vide clause 13.2.). It is the responsibility of the RAC to submit syllabus, set the question paper, conduct the examination, evaluate and make its recommendations regarding the results to the CoE, with academic integrity.

9.6.4. The Research Advisory Committee shall be functional till the end of public viva-voce examination for monitoring and advising scholars for whose thesis examiners have recommended modifications, corrections, etc., to be incorporated in the thesis before the defence.

9.6.5. They shall participate in all monitoring review meetings to advice scholars suitably and approve the synopsis and thesis of the candidate for submission.

10. Six-monthly Reports

10.1. Every scholar shall submit the bi-annual/six monthly progress reports in the prescribed format (**Vide annexure III**). These reports shall be submitted till the submission of the synopsis. The reports shall be forwarded by the Research Supervisor to the Academic Officer along with attendance certificate (wherever applicable) as per the schedule given below:-

Period of six-month reports	Last date for submission
From 1 st April to 30 th September	31 st October
From 1 st October to 31 st March	30 th April

10.2. A copy of the forwarded six-monthly reports shall be made available to the Ph.D. Scholar as well as Dean/Principal/HoD of the Faculty in which the scholar is registered, by the supervisor.

10.3. If the progress of the research scholar is found unsatisfactory, the Research Advisory Committee shall record the reasons for the same, and suggest corrective measures. If the scholar fails to implement these corrective measures over a period of one year, the Research Advisory Committee may recommend with justification the cancellation of the registration vide clause 23.1 (d).

11. Duration of the Ph.D. Program

Sl. No.	Category	Duration from the date of Provisional Registration	
		Minimum	Maximum
1.	Full-Time Candidates	3 years	6 years
2.	Full time candidates with a) D.M./M.Ch./M.D./M.S./DNB Qualifications b) M.Tech./M.E in Technology, Engineering, Computer Science, Information Technology, Engineering Management or Technology Management)	2 years	6 years
3.	Part-Time Candidates	4 years	6 years
4.	Part-Time Candidates with a) D.M./M.Ch./ M.D./M.S./DNB Qualifications b) M.C.A./ M.S	3 years	6 years

* For Ph.D. in Nursing refer INC guidelines.

- 11.1.** A maximum of an additional two (2) years shall be given through a process of re-registration as the Deemed University regulation (Ref. UGC PhD regulation 2022 dt.07.11.2022)
- 11.2.** Further to the clause 11.1, Women candidates and persons with disability (more than 40%) will be permitted additional relaxation of 2 years in the maximum duration. The candidate has to submit an application with valid reasons for availing such relaxation in the maximum duration of the Ph.D. Program to the Dean (Research) for making suitable recommendations to the Vice-Chancellor, whose decision will be final.
- 11.3.** The total period of completion of a PhD program should not exceed eight (8) years from the date of admission/Provisional registration in the PhD program, further that a female candidate and Persons with Disabilities (having more than 40% disability) may allowed a maximum period of ten (10) years from the date of admission/provisional registration, including extensions given clause 11.1.and 11.2.

12. Program Structure

- 12.1.** Every candidate provisionally registered for the Degree of Doctor of Philosophy (Ph.D.) shall be required to carry out research work under the supervision of a Research Supervisor (and Research Co-Supervisor, wherever applicable) and the Research Advisory Committee and undergo such courses of instruction as may be advised by them. The scholar shall complete all requirements including Research Proposal presentation, "Research Methodology and Course work examination", course work and the Doctoral Colloquium I (intermediate review meeting) and II (Synopsis presentation).
- 12.2.** Every candidate within three months from the date of provisional registration shall present their proposal to scrutiny committee for approval. The candidate shall discuss the proposal with the Supervisor before presentation to the committee. Based on the recommendations the proposal shall be reviewed/ revised and submitted to the academic office. During this presentation a "working title" for the thesis shall be finalized by the candidate. The candidate shall submit members for

Research Advisory committee as mentioned in clause 9. After this presentation the working title, proposal and RAC members shall be approved by the Academic office.

- 12.3.** On completion of their research, the scholar should provide proof of having carried out original research in the form of publications and proceeds to submit a synopsis followed by thesis which shall be evaluated by a Board of Examiners.

13.Course Work: Minimum Standards for Completion

Every candidate shall undergo course work in the first year and appear for Research Methodology and Course work examinations to earn minimum of 13 credits (**Vide Annexure-IV**). * For PhD in Nursing refer INC guidelines.

- 13.1. Eligibility to appear for the Research Methodology and Course work examinations:** Before appearing for the Research Methodology and Course work examinations every scholar should have completed the prescribed course work and submit documents in proof of:

- a) Attending the course work for Papers-I and II conducted at SRIHER (DU).
- b) Approved working title and proposal (Ref clause 12.2)

13.2. "Research Methodology and Course work examination" and Evaluation:

13.2.1. Every candidate provisionally registered shall appear for the written examinations of this Deemed university for papers I(100 marks) and II (50 marks). The Research Advisory Committee shall conduct the examinations for the courses prescribed [i.e., Papers-III, IV and V] vide **Annexure V**. The Supervisor shall conduct the examination under intimation to the Head of the Department/ Institution (COE).

13.2.2. The Minutes of the Meeting of the Research Advisory Committee shall be communicated by the Supervisor to the CoE with the answer scripts and question paper along with the approved hard copy of the Review of Literature and Research proposal.

13.2.3. The passing Minimum: 45% for each course and $\geq 55\%$ in aggregate.

13.2.4. If a scholar gets less than 45% in any paper (RA or Fail) in their first attempt, only that paper has to be repeated even if the aggregate is ≥ 220 (55%) and shall continue to do so until he/she obtains the passing minimum of 45% in each course and $\geq 55\%$ in aggregate.

13.2.5. If a scholar gets less than 220 in aggregate, he has to repeat all the papers. In case of RA (re-appear) in one or more papers, the passing session shall be indicated in the new marks statement.

13.2.6. On the basis of these examinations, the results of the "Research Methodology and Course work examination" shall be declared by the COE with approval of the Vice-Chancellor.

13.3. Confirmation of Registration:

Registration of the candidate will be confirmed by the University on passing the "Research Methodology and Course work examination" and submission of approval of the IEC. The letter of confirmation of the registration will be issued by the Academic Office. Failing to obtain confirmation of registration within 24 months from the date of

provisional registration, will be viewed as a reason for cancellation of registration. Researchers shall be permitted to proceed with his/her research work after Confirmation of Provisional Registration.

13.4. Research Progress Monitoring and continuation of registration:

13.4.1. At the time of admission a candidate is given provisional registration, Confirmation of registration is ensured by the institution on successful completion of coursework, "Research Methodology and Course work examination", IEC clearance and other requirements as per regulations within one year of admission for all categories of scholars.

13.4.2. The University shall deem it as discontinuance from Ph.D. Program and declare that the admission/registration of the candidate as cancelled without notice if:

- a) Failure to pass course work and "Research Methodology and Course work examination" on three consecutive occasions;
- b) Failure to submit 3 consecutive reports (six-monthly); and
- c) Lack of progress by candidate as recommended by the RAC.
- d) Failing to obtain confirmation of registration within 24 months from the date of provisional registration

13.4.3. Minimum standards of research progress for every scholar shall be periodically monitored by appearing for the following reviews:

Sl.No.	Review	Time frame	Nature of Review	Outcome
1.	Research Proposal Review	At the end of 3 rd month from the date of provisional registration	Presentation before the Ph.D. Proposal Review Committee for review of Ph.D. Research Proposal.	Advisory, issue of letter of working title, Constitution of RAC and identifying IEC requirement.
2.	Doctoral Colloquium-I	24 months (Full-time) or 24 months/ 30 months/ (Part time)	The Colloquium includes Presentation before DC-1 Committee appointed by Dean (Research). The Committee will include subject experts, senior professors, University officers and RAC.	Advisory. May also look into merits of request for change of topic within the broad area of research.
3.	Doctoral Colloquium-II	Prior to submission of synopsis	Presentation before University level committee. The DC-2 Committee will be chaired by Vice-Chancellor and will include Dean (Research), COE, Senior Professors, University Officers, subject experts and RAC. The External RAC member is permitted to join in online mode for the Synopsis.	Approval to submit Synopsis.

The minutes and reports of each of these Monitoring sessions determine the eligibility of a scholar to progress towards submission of synopsis and the thesis.

14. Evaluation and Assessment methods-Minimum Standards for award of Degree:

Upon completion of "Research Methodology and Course work examination" and minimum number of publications as per the regulations, and completion of research work the Ph.D. scholar shall be required to produce a draft synopsis, as stipulated by these Regulations.

14.1. Submission of Synopsis

- 14.1.1.** After the minimum duration of Ph.D., the scholar is eligible to submit make a presentation of synopsis of the thesis at the Doctoral Colloquium - II (clause 13.4.3) for approval. The feedback and comments obtained may be suitably incorporated into the final Synopsis in consultation with the Research Advisory Committee. The title of the thesis shall be approved at this meeting.
- 14.1.2.** To be eligible for the synopsis presentation the scholar must submit evidence of 2 publications, must have Ph.D. registration confirmation letter, must have submitted Six monthly reports for throughout the period of study until the day of synopsis submission and paid applicable fees. The publications (published or accepted for publication) in peer reviewed indexed journals in SCOPUS, WoS or PUBMED. In one publication the scholar should be the first author and the data must emanate from the research conducted for Ph.D.. The other publication could be a scoping review/systematic review/research note/original article related to the Ph.D. work, where the scholar is an author/co-author with his/her contribution to the publication clearly defined. The Scholar, with the signature of the Supervisor, must submit a note detailing how the publications are related to the PhD work. A patent awarded can be accepted in the place of one publication, provided the patent has emanated from the PhD work.
- 14.1.3.** Every candidate shall submit to the University, through the Supervisor with approval of the Research Advisory Committee, hard copie(s) of the Synopsis of the proposed thesis. The synopsis shall be submitted both in the form of hard and soft copy as per guidelines and format provided in **Annexure – VI**.

14.2. Submission of Thesis:

- 14.2.1.** Not later than Three MONTHS after the submission of the synopsis every candidate shall submit hard copie(s) and one soft copy of thesis embodying the results of the research carried out by him/her along with the prescribed application and fee. The title and contents presented and approved in the Synopsis and thesis shall be the same. Any extension of period beyond three months for submission of thesis shall requested in letter to Controller of Examinations through the Guide. Such an extension will be provided only once and for a maximum of three months. Late submission beyond the minimum duration or requested extension period is likely to attract a late submission fine or cancellation of registration as per clause 23, if the maximum duration of the PhD has been surpassed.
- 14.2.2.** The title page of the thesis, cover, format, etc., should strictly conform to the format of presentation vide **Annexure VII** and the thesis (all copies) should carry a declaration by the candidate and certificate as prescribed, duly signed and issued by the Supervisor. The Ph.D.Thesis/Synopsis will be written in English.
- 14.2.3.** The Scholar through the Research supervisor shall submit the soft copy of the finalized thesis to the UGC approved software to detect plagiarism and other forms of academic dishonesty. While submitting for evaluation, the thesis shall have an undertaking from the research scholar and a certificate from the Research Supervisor vide **Annexure-VIII** attesting to the originality of the work, confirming that there is no plagiarism. The Plagiarism threshold level will be as decided by the Dean (Research).

14.3. Submission of Thesis before the minimum period prescribed

14.3.1. Notwithstanding anything contained in these regulations regarding the minimum period of research to be put in by the scholar before becoming eligible to submit their thesis for the degree, a scholar may be permitted to submit their thesis earlier by a period not exceeding six months provided such request for earlier submission from candidates is accompanied by

- a) the recommendations of the supervisor for relaxation based on the satisfactory completion of the research work for the thesis topic with evidence that the candidates has been working consistently even prior to his/her provisional registration for the Ph.D. Degree on the topic of his/her research; and
- b) Evidence of having completed the required work for the thesis by way of reprints of at least two publications in the topic of Ph.D. research in indexed journals with impact factor.

14.3.2. Provided that the request for submission of thesis before the minimum period prescribed has to be approved by the Dean (Research) and Vice-Chancellor. Information must be placed in Academic Council.

14.3.3. Provided further that scholars whose minimum period of research is 2 years as per Clause 11 (S.No.2) will not be permitted to submit their thesis before the completion of the minimum duration.

14.4. Panel of Examiners

14.4.1. The Ph.D. thesis submitted by a research scholar shall be evaluated by a Board of Examiners (three External examiners) appointed by the Vice-Chancellor from a panel of nine external examiners (three from the Southern States, three from the rest of India and three from abroad) recommended by the RAC. The supervisor shall submit the panel of examiners along with their brief CV, latest e-mail id, telephone nos. etc. URL of the Institution as per the format provided.

14.4.2. The persons suggested for appointment as examiners must meet the same eligibility criteria required for being recognized as 'Research Supervisor for Ph.D.' in this Deemed University. Provided further that no close or immediate relative of the candidate/supervisor be appointed to act as an examiner.

14.4.3. From this panel, three external examiners, one from outside the country, one from South India and one from rest of India shall be appointed as the Board of Examiners by the Vice-Chancellor for adjudication of the research thesis.

14.5. Evaluation of the Thesis:

14.5.1. The Board of Examiners so appointed shall value the thesis and report on the merit of the thesis for the award of the Ph. D degree with the supervisor as the Convenor of the Board of examiners. Each examiner is expected to give a detailed report on the thesis apart from a duly filled in proforma for adjudication in the format prescribed by the University.

14.5.2. The Examiners who evaluate the thesis shall report to the Controller of Examinations on the merit of the thesis for Ph.D. Degree as "Highly Commended", "Commended" or "Not Commended" in the format prescribed, along with a detailed report. If all three Examiners commend the thesis, such reports of the examiners will be sent to the Research Supervisor who will act as Convenor and prepare a consolidated report within a month. It shall include the main points made in the individual reports together with a reference to critical comments and suggestions, if any, made by the examiners.

- 14.5.3.** If all the three examiners unanimously recommend the award of the degree, the candidate will be asked to appear for a public Viva-Voce Examination. In addition, the candidate should carry out the corrections etc., if any, suggested by the examiners, before the public viva-voce examination after obtaining permission from the Controller of Examinations. The Supervisor shall furnish a certificate to this effect, together with the list of corrections, to the University before the public viva-voce examination.
- 14.5.4.** If one of the external examiners (India or abroad) reports the evaluation of the thesis as "Not Commended", the Vice-Chancellor, having regard to the nature of the comments of the examiner who has "Not commended" the thesis, may at his discretion, refer the thesis to a fourth examiner for evaluation and the fourth examiner so appointed shall be same category i.e. from South India/rest of India/ from abroad. The fourth examiner, so appointed, will not be provided with the report of the other examiners. If the fourth examiner reports the evaluation of the thesis as "Commended" the scholar will be asked to defend his/her thesis in a public Viva prescribed in these regulations. If the fourth examiner also does not "Commended" the thesis the scholar has to resubmit the thesis, after revision.
- 14.5.5.** Any complaint relating to valuation of the thesis, etc., will be referred to a Committee constituted by the Vice-chancellor and based on the report of the committee, action will be taken by the Vice-Chancellor.
- 14.5.6.** Supervisor shall not correspond with the examiners under any circumstances while the thesis is in the evaluation process. Any violation will lead to debarring the faculty member from guiding Ph.D. thesis and he/she will face disciplinary action. Similarly, any attempt by the scholar to contact the examiners will lead to withholding/withdrawal of degree.

14.6. Resubmission of the Thesis:

A scholar whose thesis has not been commended as specified above will be permitted to resubmit it a second time after carrying out additional work suggested and revising the thesis within a period of one year from the date of communication of the Controller of Examinations in this regard. A specific statement from the candidate and the Supervisor about the additional research work conducted and the revision done in the thesis should be provided. The resubmitted thesis shall be referred to the same examiner who originally valued the thesis for reevaluation.

14.7. Viva-Voce:

- 14.7.1.** The viva-voce examination shall be conducted by the Research Supervisor/Co-supervisor and one of the external examiners or an external examiner appointed by the Vice-Chancellor. The Viva-voce may be held through or in hybrid mode and the Indian and/or the foreign examiner may participate. If none of the examiners who evaluated the thesis is available at the time of Public Viva-Voce, another examiner from the panel may be appointed by the Vice-Chancellor and such examiner will be provided with a copy of the thesis and reports of all the three examiners, well in advance before the date of Public Viva-Voce examination to defend thesis. If for any reason the Supervisor is unable to conduct the viva-voce examination even one month after the approval of the consolidated report on the Ph.D. Thesis by the University and after appointment of the viva-voce examiner, the matter will be referred to the Standing Committee of the Board of Research Studies by the Controller of Examinations. The Committee will recommend to the Vice-Chancellor suitable a faculty member in the place of the Supervisor to conduct of the viva-voce examination in time.

- 14.7.2.** A copy of the thesis of the candidate appearing for the public viva voce examination shall be deposited in the departmental library for perusal of those interested in the thesis before the conduct of the public viva-voce examination, together with appropriate public notice issued by the Supervisor for the purpose. **The Research Supervisor shall invite two external teachers and/or scientists other than the examiners, in the specialty concerned or allied specialty to participate in the public Viva-Voce in-person or online.** The Public viva-voce will be conducted at a central place in hybrid mode and the proceedings of the viva shall be sent to the Office of the Controller of Examinations, as prescribed supra..
- 14.7.3.** In addition members of the department in the subject concerned where the candidate conducted research and outside specialists, if any, may participate in the public viva-voce examination. The Supervisor shall convey to the University, the result of such public viva-voce examination duly endorsed by the external examiner, together with a list of participants (online registrants) in the examination with their signature/email address, designation.
- 14.7.4.** A candidate, who is not successful at the public viva voce examination, may be permitted to take the same on a second occasion, after the expiry of THREE months. If he/she is not successful even on the second occasion at the public viva-voce examination, the degree will not be awarded to him/ her.
- 14.7.5.** No candidate shall be permitted to submit a thesis or to appear for the public viva-voce examination on more than TWO occasions.
- 14.7.6.** The Institution shall develop appropriate methods so as to complete the entire process of evaluation of Ph.D. thesis within a period of six months from the date of submission of the thesis.
- 14.7.7.** The scholar successful in defending his/her thesis in the Public Viva-Voce Examination shall be declared to have qualified for the Ph.D. Degree with effect from the date of the Public Viva-Voce, on approval by the Vice-Chancellor and the result will be placed before the **Academic Council** at its next meeting, for ratification..

15.Award of Ph.D. Degree

The University shall issue a provisional certificate certifying to the effect that the degree has been awarded in accordance with the provisions of the regulations of the UGC.

The Scholar will be awarded the Ph.D. Degree at the next convocation.

16.Depository with INFLIBNET

After viva-voce examination the final version of the thesis need to be prepared by incorporating all corrections suggested by the examiners and the same shall be uploaded by the scholar through the Library. The candidate must submit a communication from the library personal confirming the uploading of data in the Inflibnet. In case where the candidate and supervisor needs the uploading of data delayed for a specific period of time, to limit the possibility of plagiarism of proceeding publication from the data of the PhD, a request may be submitted to Dean(Research) just after the synopsis presentation for permission. However, such restriction can be requested to a maximum period of 6 months, beyond which time the data will be uploaded in Inflibnet by the institution.

The final version of the thesis copy (one hard bound) and one soft copy should contain a certificate given in Annexure VII and a scanned copy of the award letter. These two items should be placed in between the title page and certificates.

17.Re-Registration beyond maximum duration

- 17.1. The Thesis shall ordinarily be submitted not later than 6 years from the date of provisional registration and subject to provisions under Clause No.11. The scholars who could not submit their Ph.D. Thesis within the prescribed maximum duration can apply for re-registration.
- 17.2. The scholar should apply for re-registration in the prescribed form providing appropriate reasons for non-completion of thesis at least three months before the expiry of the maximum duration of study. The Vice-Chancellor may grant approval of the request for re-registration considering the merit of such request on the recommendation of the Dean (Research). Recommendations from Standing Committee is sought whenever needed based on the case.
- 17.3. No re-registration will be permitted beyond the maximum duration mentioned in the clause 11.3.
- 17.4. The scholars will pay a prescribed fee for Re-registration. The re-registered scholars will be governed by regulations and fees in force. These candidates are not eligible for any further extensions and their registration will be automatically cancelled after the end of the prescribed duration of re-registration and extensions based on the clause 11.

18.Extension of Time to submit Ph.D. after re-registration

- 18.1. In exceptional circumstances the Vice-Chancellor, on the recommendation of the Research Supervisor and Research Advisory Committee, may grant extension of up to six months after the maximum period as per clause 11.3., on payment of fees as may be prescribed by the Deemed University.
- 18.2. If the scholar fails to submit thesis, even after extension of time so granted, his/her registration will automatically lapse and his/her name will be taken off the rolls of registered scholars for the Ph.D. program.

19.Change of Institution of Research by Scholars

- 19.1. If any scholar during the period of research leaves the institution in which he/she has originally registered for the Ph.D. degree and desiring to continue his/her research in another institution in which he/she is now employed, can do so only with the prior approval of the Dean (Research) who may grant approval, provided such institution, as per Clause-7, is recognized for conduct of Ph.D. Research. This change of employment to another institution will be permitted only once during the Ph.D. Program. The scholar will pay a fee prescribed for the same.
- 19.2. Candidates changing their status of employment shall submit 'NOC' for pursuing their Ph.D. Program from the new employer.

20. Conversion of Full-Time Registration into Part-Time and Vice-Versa

- 20.1 The Deemed University may permit conversion from Full-time to Part-time category of registration and vice versa, for valid reasons and subject to satisfying the regulations in force. Conversion from Part-Time to Full-Time category of registration or vice versa will be permitted only once and should be approved by the Dean (Research).

20.2. The conversion formula for calculating the minimum period required for the submission of the thesis after conversion from FULL-TIME to PART-TIME and vice versa is as follows;

- a) From FULL-TIME to PART-TIME: actual period spent as FULL-TIME Scholar shall be taken as period of research in full.
- b) From PART-TIME to FULL-TIME: 50% of the period out of total period spent as PART-TIME Scholar shall be taken as period of research for FULL-TIME

21. Change of Field of Research

21.1 If a change of field of research becomes necessary, the research scholar should make a requisition seeking permission for change duly recommended by the Research Supervisor and RAC members to the Dean (Research).

21.2 If permitted the scholar must present the new research proposal to the research proposal committee scheduled by the Academic office.

21.3 The Scholar must write Research Methodology and course work examinations when scheduled by the University. If the change request has been placed within two years from the date of Research Methodology and course work examination conducted for first/current field of research, the scholar is exempted from appearing for paper I and Paper II of the course work examination. The credit shall be transferred from the already appeared examination. If the change of research area is proposed beyond the above mentioned period, the scholar has to write all the papers of the course work examination.

21.4 The scholar must follow all the procedure and existing regulations for ethical clearance, and financials. The minimum and maximum duration and any duration extensions for PhD will be calculated from date of first provisional registration only. For Full time stipends also the duration will be calculated from first provisional registration only.

21.5 No separate provisional registration letter will be created for change in research area. PhD registration confirmation given for first/current proposal will stand cancelled if change in the field of research is approved. Confirmation will be given for the new research proposal will be given following the prevailing Ph.D. regulations.

22. Change of Research Supervisor and Members of RAC

22.1. Transfer of Ph.D. scholars from one Research Supervisor to another Research Supervisor can be effected, if mutual willingness is given by both the original and proposed Research Supervisors, for valid reasons with the approval of Vice-Chancellor based on the recommendations of the Dean (Research).

22.2. The Research Supervisors who wish to avail leave/lien/deputation beyond a period of six months shall nominate a Supervisor i/c in the subject concerned for the scholar(s) preferably from the RAC and the fact shall be intimated to the Academic Officer in advance, for getting the approval of the Dean (Research). If the Research Supervisor has not made any such nomination, it will be open to the Vice-Chancellor to appoint the Research Supervisor from among the members of Research Advisory Committee.

22.3 In the event for the requirement of change of Supervisor of a Ph.D. candidate based on the recommendations of Grievance Redressal Committee or due to unforeseen circumstances, or based on a request by the supervisor to be relieved as supervisor, the same shall be referred Dean (Research), for recommendations.

22.4 In extraordinary cases, if there is a need to change the research Supervisor at the time of submission of synopsis or thereafter, the matter will be referred to by the CoE to

Dean (Research) for recommendations. If approved the candidate shall be allowed to submit the synopsis/ thesis under a research coordinator, who shall be approved research guide of the Deemed University. The research co-ordinator will work with RAC to facilitate the candidate administratively to submit the synopsis/thesis and in all other ensuing processes like public viva voce examinations.

- 22.5 If candidate desires to change of supervisor, the request must be in written form with justification for a change. If there is a mutual agreement between candidate and supervisor, signature of the supervisor must be obtained in the letter. The request will be placed for recommendations from Dean (Research). If deemed necessary Dean (Research) will forward the request to standing committee for research studies for recommendations. Any dispute including lack of consensus from the Supervisor for the change will be forwarded to standing committee. Any action in this regard will be informed to RAC members also.
- 22.6 A written request by the candidate to remove any member of RAC including Co-supervisor must be forwarded by the supervisor. The request must have a justification for removal from the panel. The request will be placed for recommendations from Dean (Research).
- 22.7 If a RAC member or Co-supervisor requests withdrawal from the RAC, a written request with justification must be forwarded by the supervisor to the Dean (Research) for recommendations.
- 22.8 If Supervisor desires to remove a member from the RAC, a written request with justification has to be placed for Dean (Research)'s recommendations.
- 22.9 In the events of removal of Co-supervisor or a RAC member from the RAC panel, a new member with relevant expertise must be included within two months. The approval of the members will be confirmed by Academic office as per the clause 8 of the PhD regulation.
- 22.10 If a change in the RAC member is warranted nearing the event of synopsis submission or after the synopsis submission, wherein the specific expertise may not be needed or difficult to accommodate a new member with the research in its completion stage, recommendation from the Dean (Research) must be obtained.
- 22.11 In the event of Supervisor/Co-supervisor leaving the Deemed University after the submission of synopsis, he/she shall continue in the role until thesis defense. In unforeseen circumstances where such continuation is not possible, CoE shall seek recommendations from Dean (Research). The issue will be discussed with standing committee for research studies for recommendation if needed and final approval will be obtained from Vice-Chancellor.
- 22.12 If Supervisor leaves Deemed University before the submission of synopsis, the candidate must ensure that synopsis be submitted with this 3 months from the date supervisor relieved from the Deemed University. Permission must be obtained from the Dean (Research) in the above circumstances. If synopsis could not be submitted within three months, new supervisor must be identified from the RAC panel, who shall be an approved PhD supervisor of the Deemed University. In cases where such change in role could not be initiated, an approved PhD supervisor of the Deemed University who is not in RAC panel shall be recommended by the supervisor, to take his/her position. The Supervisor can continue to be in the RAC panel.

- 22.13 All the communication to the Dean(Research) related to all the points in clause 22, shall be forwarded through Academic office.
- 22.14 In case of relocation of a Ph.D. woman scholar due to marriage or similar reasons, the research data shall be allowed to be transferred to the institution to which the scholar intends to relocate, provided all the other conditions in these regulations are followed in letter and spirit and the research work does not pertain to the project secured by the parent Institution/ Supervisor from any funding agency. The scholar will however give due credit to the Institution supervisor and the Institution for the part of research already done.
- 22.15 In case of dispute or If deemed necessary Dean (Research) will forward the request to standing committee for research studies for recommendations for all the points covered under clause 22. Any action in this regard will be informed to RAC members also.
- 22.16 For all the points in the clause 22, final approval will be obtained from Vice-Chancellor for implementation.

23. Cancellation of Registration for Ph.D.

23.1. The registration is liable for cancellation if

- a) An act of plagiarism is identified in the publication/thesis of the scholar (as per University Policy on Academic Integrity and Prevention of Plagiarism, 2019);
- b) Any ethical violation until the time of submission of synopsis;
- c) The scholar fails to obtain confirmation of provisional registration within 24 months after his/her provisional registration for the Ph.D. Program;
- d) On the recommendation of the RAC that the progress of research is not satisfactory in at least three consecutive six monthly reports (vide clause 13.4.2);
- e) Scholar does not respond to any communication from the Research Supervisor/Academic Office/CoE beyond one year continuously at any stage;
- f) A full time scholar found to be employed for salary/working in a project unrelated to the PhD registered, which are disrupting the Ph.D. related work. It is recommended that such employment or work shall be disclosed to the Research Supervisor ahead of registration to avoid any conflict of interest or shall be disclosed when engaged during the period after registration to Ph.D.
- g) Where a scholar has not submitted the thesis within the period prescribed or has also failed to do so within the extended period/re-registration of the Ph.D.,
- h) Any violation of the rules and regulations of Ph.D. Program;

23.2. In case of recommendation for cancellation of the registration by the Research Supervisor/Academic Officer/CoE/Dean (Research) based on reasons listed above, the matter shall be referred to the Standing Committee of the Board of Research Studies, which may recommend cancellation of registration depending on the merit of the case. The scholar shall be intimated about the grounds on which the

registration is being cancelled and given an opportunity to seek redressal within 15 working days. The recommendations of the Standing Committee will be placed before the Vice Chancellor whose decision will be final.

24. Leave/Break of Study

24.1. Leave

24.1.1. **Full time** Scholars can avail maximum of 15 days of leave in a calendar year. The department shall maintain an attendance register for the scholars to sign every day. The same shall be submitted for verification when requested by authorities.

24.1.2. In addition, the women candidates may be provided Maternity Leave/Child Care Leave once in the entire duration of Ph.D. Program for up to 240 days. This leave shall not be considered for minimum or maximum duration of the PhD.

24.2. Break of Study

24.2.1. The Dean (Research) may permit, if deemed fit valid reasons, break of study for the scholar under extraordinary circumstances such as medical grounds and other compelling reasons which warrants his/her absence from the program.

24.2.2. For permitting a break in study on medical grounds, a certificate from the Medical Officer (CMO) of the institute is essential. For resumption of studies, such a candidate should produce a fitness certificate from the CMO of the institute.

24.2.3. Break of study shall be granted up to a maximum period of one year and not exceeding six months at a time. Such requests should be made prior to availing break of study through the research supervisor to the Academic Officer who will place it for recommendation to the Dean (Research). The Break of study request after the submission of synopsis shall be to a maximum of six months. The thesis shall be submitted at the end of six months. If not submitted it is likely to be viewed for cancellation of registration.

24.2.4. The scholar should pay the applicable tuition and other fees during the break of study period also, to keep him/her on the roll.

24.2.5. PhD cancellation clause 23.1. (c) and 23.1 (d) will be viewed according to the break in PhD permitted. Six monthly report need not be submitted during the period of break. Period of break must be notified in the subsequent six monthly report.

24.2.6. In case of all the above reasons for break, the maximum duration for the Ph.D. will remain as per the clause 11.3 of this regulation.

25. Fee Structure for Ph.D. Program

The scholar will pay the Annual Research fee until the submission of his/her thesis. Application fee, registration fee, fee for recognition of degrees of other Universities, "Research Methodology and Course work examination" fee, annual research fee for

extension of time and fee for submission of synopsis and thesis shall be payable by the scholar as prescribed by the University from time to time.

26. Publication of the Thesis

An approved thesis may be published in full as a book or in parts only with the permission of the Deemed University with due acknowledgment (Vide Declaration form in the prescribed format) However, a scholar can, during the course of his/her research, publish papers in peer-reviewed/indexed research journals as advised by his/her Research Supervisor, in accordance with Regulation Clause No. 14.1.2.

27. Constitution and Functions of the Standing Committee of the Board of Research Studies (SC of BoRS):

27.1. The Standing Committee (SC) constituted by the University, shall consist of:

- | | | |
|--|---|----------|
| a) Dean (Research) | - | Chairman |
| b) Associate Dean of Research | - | Member |
| c) Controller of Examinations | - | Member |
| d) Academic Officer | - | Member |
| e) One Senior Professor (Internal) from the BoRS | - | Member |
| f) One External Member from the BoRS | - | Member |
| g) Any other Member co-opted by Dean (Research) | - | Member |

27.2. The Standing Committee shall provide recommendations to the Vice-Chancellor relating to Change of Supervisor, Change of Institution, Change of Field of Research and conversion from Full time to Part Time and any other matter as referred to it by the Dean (Research). All recommendations shall be placed before the next meeting of the Board of Research Studies for ratification.

27.3. The term of Office of this Committee shall be 3 years. The Committee will meet as and when required.

28. Ph.D. Academic Committee

The Ph.D. Academic committee shall be constituted by the Dean (Research). This shall include nominated senior professors/researchers from the University, and members of the Research Promotion Committee (RPC). They may also include visiting faculty, and external members as required. Members of the Ph.D. Academic Committee will be co-opted as members of the Admission Committee, Proposal Review Committee and the Doctoral Colloquium I and II as and when needed.

29. Decision by Vice-Chancellor

In all other matters not specifically covered under these regulations, the Vice-Chancellor may take a decision having regard to the circumstances of the case. If deemed necessary, he may refer the matter to the Standing Committee of Board of Research Studies, for suitable recommendations for taking a decision.

30. Transitory Provision

These amendments to the Ph.D. Regulations – October, 2023 shall come into effect from December 2025. However in the case of scholar registered for Ph.D. program prior to the said session, the previous regulations shall be applicable with respect to all clause governing the PhD scholar. Other clause related to administrative aspects and supervisor-

ship this regulation shall be applicable to all the matters concerned after once the regulation is approved in the Academic council.



ANNEXURES FOR Ph.D. REGULATIONS

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ANNEXURE – I

SRI RAMACHANDRA

INSTITUTE OF HIGHER EDUCATION AND RESEARCH

(Category - I Deemed to be University) Porur, Chennai

**Application for recognition as a Research Supervisor/Co-Supervisor/RAC Member
for Ph.D. Program
(for those who have qualified with M.D./M.S./DNB/MDS/D.M./M.Ch.)**

1.	Name (in capital letters)			
2.	Date of Birth	<input type="text"/>	<input type="text"/>	<input type="text"/>
		<input type="text"/>	<input type="text"/>	<input type="text"/>
		<input type="text"/>	<input type="text"/>	<input type="text"/>
		<input type="text"/>	<input type="text"/>	<input type="text"/>
		<input type="text"/>	<input type="text"/>	<input type="text"/>
		<input type="text"/>	<input type="text"/>	<input type="text"/>
3.	Designation			
4.	Institutional address			
5.	Mobile			
6.	E-mail ID			
7.	Qualification :			
	Degree	Specialization	College and University	Month & Year of Awarded
8.	Number of years of Teaching Experience after PG Degree			
9.	Number of years of Research Experience after PG Degree			
10.	Academic / Research Positions held after PG Degree:			
	Name of the Institution	From	To	Total months/years

11.	Thrust area of research interest (List at least 4)			
a.				
b.				
c.				
d.				
12.	Attach Brief CV (one page only)			
13.	Publications	No. of publications	No. of books authored	No. of book chapters
14. Attach list four recent publications indexed in Scopus/ Web of Science/PubMed for which you are either first or corresponding author in the format given below. Also enclose the first page of the each publication				
S.No.	Publication Title	Authors (Highlight first and corresponding authors)	Name of Journal/ Volume/ Page No. and Year	Indexing agency : Scopus/Web of Science/PubMed
1.				
2.				
3.				
4.				

Applicant Signature with Date:

Head of the Department:
(Signature with seal)

Dean/Principal:
(Signature with seal)

ANNEXURE – II

**Application for recognition as a Research Supervisor/Co-Supervisor/RAC Member
for Ph.D. Program (for those who have Ph.D. qualification)**

1.	Name (In capital letters)							
2.	Date of Birth	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	Age :
3.	Designation							
4.	Institutional address							
5.	Mobile							
6.	E-mail ID							
7.	Qualification :							
	Degree	Specialization	College and University	Month & Year of Awarded				
8.	Total Number of years of PG Teaching Experience (if applicable)							
	Total Number of years of PG Teaching Experience after Ph.D. (if applicable)							
9.	Number of years of Research Experience after Ph.D. Degree							

10.	Positions held:			
	Name of the Institution	From	To	Total months/ years
11.	Thrust area of research Interest (List at least 4)			
a.				
b.				
c.				
d.				
12.	Attach Brief CV (one page only)			
13.	Publications/ Patents	No. of publications and patents	No. of books authored	No. of book chapters
14. Attach list four recent publications indexed in Scopus/ Web of Science / PubMed for which you are either first or corresponding author in the format given below. Also enclose the first page of the each publication				
S.No.	Publication Title	Authors, (Highlight first and corresponding authors)	Name of Journal/ Volume/Page No.and Year	Indexed in Scopus/ Web of Science/ PubMed
1.				
2.				
3.				
4.				
5				

Applicant Signature with Date:

Head of the Department:
(Signature with seal)

Dean/Principal:
(Signature with seal)

ANNEXURE – III



Report No.:

Ph.D. PROGRAM - SIX MONTH PROGRESS REPORT

Period of six-month reports	Last date for submission
From 1 st April to 30 th September	31 st October
From 1 st October to 31 st March	30 th April

Period of the report From 1st April 20..... to 30th September 20.....

From 1st October 20..... to 31st March 20.....

- Name of Scholar :
- Ph.D. Registration No. :
- Date of Provisional Registration :
- Category of Registration : FT FT (INTE) PT (I) PT (E)
- Working title of the proposed Thesis :
- Has RAC meeting been conducted in the reporting period (Enclose minutes) : Yes No

Work Done

- (a) Does the progress of the project deviate from the approved plan for completion of the thesis? (Funding, RAC, working title of the thesis, methods used, schedule, etc.)

Yes No

If yes please provide details as annexures

- (b) Has there been any change in status of

Supervisor / RAC member: Yes No

Communication Address / Email ID / Mobile No: Yes No

(c) IEC Clearance Obtained: Yes No
 If yes please provide details as annexures

(d) Provide details of publications/Training undergone, presentations made, project submission/approval, conference attended, attach first page of publication indicating impact factor and indexing agency if any:

(e) Give a brief account of the progress made and what has been achieved in the reporting period (500 words): (search of the literature, data collection, experiments, writing, dissemination of expertise, etc.)

(f) Planned activities for the next six months :

Date:

Signature of Ph.D. Scholar

To be completed by Research Supervisor

Remarks of the Research Supervisor:			
a) Overall Satisfaction with the Quality of Work:			
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Below Expectations	Meets Expectations	Exceeds Expectations	
b) Overall Pace of Work:			
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Too Slow	Right Pace	Hurried	Too Hurried
a) Attendance :			
(i) indicate dates of leave taken (for full time scholars)			
(ii) indicate dates of attendance at Deemed University (for part time scholars)			
b) Any other Comments / Recommendations:			

I/we hereby certify that a candidate has put in necessary attendance and shown progress in his/her research and he/she may be permitted to continue research.

Name and Designation	Signature with Date & Dept. Seal
Research Supervisor:	
Research Co-Supervisor/ RAC Member*:	
RAC Member*:	

* Confirmation of minutes of the RAC meeting and approval of the six monthly reports from the research co-supervisor/RAC member may be obtained by e-mail. The email shall be printed and attached to the hard copy (one) of the same along with the six monthly report before submitting to the Academic office.

For Office Use Only:

Date of receipt of Report	
Signature of Dealing Assistant	

Encl.:

- Minutes of RAC meeting
- Publications if any (attach first page)



**Ph.D. PROGRAM – UPDATION OF DATA SHEET
(TO BE SUBMITTED BY EACH SCHOLAR ANNUALLY OCT/APRIL ALONG WITH THE
SIX MONTHLY REPORT)**

Date of Submission:

PART I – FOR ALL SCHOLARS		
Particulars about the Scholar:		
1.	Name of the Scholar	
2.	Ph.D. Registration No.	
3.	Designation	
4.	Institution where working	
5.	Mobile	
6.	Email	
7.	Date of provisional registration	
8.	Category of registration	FT <input type="checkbox"/> FT (INTE) <input type="checkbox"/> PT (I) <input type="checkbox"/> PT (E) <input type="checkbox"/>
9.	Broad area of research	
10.	Working title of the proposed thesis	
11.	Name of Dept./Institution where research is conducted	

PART II – SCHOLAR FOR WHOM PROVISIONAL REGISTRATION IS NOT CONFIRMED		
12.	Has the Research Proposal been approved	Yes <input type="checkbox"/> No <input type="checkbox"/>
13.	Has Working title letter been issued	Yes <input type="checkbox"/> No <input type="checkbox"/>
14.	Have you completed Electives (For candidates admitted until April 2023 session)	Yes <input type="checkbox"/> No <input type="checkbox"/>
15.	Have you submitted or obtained IEC/CT/ IAEC approvals, If yes, provide reference no. with date	Yes <input type="checkbox"/> No <input type="checkbox"/>
16.	If No, state reasons for not filing an application	
17.	Have you completed Part I Research Methodology Examination	Yes <input type="checkbox"/> No <input type="checkbox"/>

PART III – FOR SCHOLAR FOR WHOM THE PROVISIONAL REGISTRATION IS COMPLETED			
18.	Have you completed Doctoral Colloquium Review 1? If yes provide the reference letter No.	Yes <input type="checkbox"/>	No <input type="checkbox"/>

PART IV – FOR ALL SCHOLARS			
19.	Annual Research fee paid for the year	Academic Year:	Amount in Rs.
		Receipt No .:	Dated:
		Yes <input type="checkbox"/>	No <input type="checkbox"/>

Signature of Ph.D. Scholar

Date

Forwarded by Research Supervisor

ANNEXURE – IV**Course work curriculum and structure for “Research Methodology and Course work examination” Examinations:**

Candidates have to complete the following to be eligible to appear for part 1 examinations

- a) Attend a workshop at SRIHER (DU) campus when notified: Research methodology, Biostatistics and Computer applications, and Research and Publication Ethics
- b) Obtain the IEC/ IAEC approvals (where ever applicable).

Course work curriculum and structure for Part - I examinations.

* For PhD in Nursing refer INC guidelines.

Sl. No.	Course Code	Course Title	Credits	Instructional method	Authorized Responsibility
1.	U0222CT101	Research Methodology, Biostatistics & Computer Applications	3	Course conducted at DU	University-3 hrs
2.	U0222CT102	Research and Publication Ethics	2	Conducted Course at DU	University-2 hrs
3.	U0222CT103	Advanced Course in Area of Research	3	Self- study based on syllabi approved by RAC; [Advanced Theory course/ Analytical Instrumentation training in area of research, practical/ Workshop/ Training or combination]	University RAC- 3 hrs
4.	U0222CL104	Review of Literature and Research Proposal	3	Self- study Proposal Submission {format provided}	RAC
5.	U0222CL105	Viva Voce – related to research proposal	2	Viva	RAC
		Total	13		

ANNEXURE – V



**“RESEARCH METHODOLOGY AND COURSE WORK EXAMINATION” EXAMINATIONS:
SYLLABUS AND GUIDELINES**

Scheme of Examination

Sl. No.	Course code	Course Title	University Exam Marks			Total
			Credits	Theory	Practical	
1.	U0222CT101	Research Methodology, Biostatistics & Computer Applications	3	100	0	100
2.	U0222CT102	Research and Publication Ethics	2	50	0	50
3.	U0222CT103	Advanced Course in Area of Research	3	100	0	100
4.	U0222CL104	Review of Literature and Research Proposal	3	0	100	100
5.	U0222CL105	Viva Voce – related to research proposal	2	0	50	50
TOTAL			13	250	150	400

*Viva-voce will be conducted relating to submission (Review of Literature and Research Proposal) made by scholar.

Passing Minimum:

- The passing minimum is 45% FOR EACH COURSE and $\geq 55\%$ in aggregate;
- If scholar gets less than 45% in any paper (RA or Fail) in their first attempt student has to repeat only that paper even if the aggregate is ≥ 220 (55%) and shall do so until he/she obtains the passing minimum of 45% and $\geq 55\%$ in aggregate;
- If SCHOLAR gets less than 220 in aggregate, he has to **repeat all** the papers;
- In cases of RA in one or more papers, passing session shall be mentioned in the new marks statement;
- If the scholar is absent (AB) for a course, he/ she shall reappear the next time the examination is held. Not more than three appearances including AB in a course is permitted; and
- The Pass/Fail (RA) declared for a course in the first attempt shall be taken and in case of RA for a course that course shall be repeated until he obtains $\geq 45\%$ for the said course and $\geq 55\%$ in aggregate.

SYLLABUS FOR "RESEARCH METHODOLOGY & COURSE WORK EXAMINATION"**1. Research Methodology, Biostatistics & Computer Applications - U0222CT101**

Course No.	Course Title	Credits for program	University Exam marks		Grand Total
		Credits	Theory	Practical	
U0222CT101	Research Methodology, Biostatistics and Computer Applications	3	100	-	100

Learning Objectives	Learning outcomes
<p>Learning the principles and concepts in conducting research, writing and publishing</p> <p>Learn basic biostatistics methods, sampling and their applications.</p> <p>Learn about computer applications for research</p> <p>Guidelines in conducting experiments on human subjects or animals.</p>	<p>The student should have acquired the skills to plan a research project,</p> <ul style="list-style-type: none"> • review literature; • identify a research problem; • communicate a publication; • develop study design suitable for the research undertaken • hypothesis testing, • statistical analysis • Use computers for research. • Practice the principles of Good clinical practice • apply ethical principles in the conduct of research

Unit I	<p>Introduction to Research and Review of Literature</p> <p>Concept of applied and basic research, need for theoretical frame work, hypothesis development for research, process of selection of research question including prioritization and feasibility, research process, process of writing a research proposal, scientific writing for thesis and research publications.</p> <p>Review of literature, what is review of literature, need for review of literature, primary and secondary sources for review, treatise, monographs, patents, current literature methods, abstraction of research papers, major secondary sources, bibliographic databases, web as source of information, information retrieval, information processing, critical evaluation, organization of materials collected and writing of review, methods of writing references and bibliography.</p>
Unit II	<p>Scales of Measurement & Measures of Disease Frequency</p> <p>Scales of measurement, basic concepts in response scales, types of scales, categorical scales, nominal scales, ordinal scales and interval scales, visual analogue scales, composite scales, Guttman scale, combination scores, Likert scale, principles and approaches in questionnaire development.</p> <p>Measures of disease frequency and association, prevalence, incidence, crude, specific and adjusted (standardized) rates, relative risk, odds ratio, standardized mortality ratios, attributable risk and interpretation of measures of association.</p>

Unit III	<p>Epidemiological Methods and Social Science Methods</p> <p>Descriptive epidemiological studies, correlation studies, case reports and case series, design and conduct of cross sectional studies, hypothesis formulation from descriptive studies.</p> <p>Case control studies: Design and conduct of case control studies, analysis and interpretation of results, bias in case control studies.</p> <p>Cohort studies: Types of cohort studies, design and conduct of cohort studies, analysis and interpretation of results, bias in cohort studies.</p> <p>Interventional studies: Types of interventional studies, design and conduct of randomized controlled trials, analysis and interpretation of results</p> <p>Evaluating role of bias and confounding: Types of bias, control of bias, evaluation of role of bias, nature of confounding, methods of controlling confounding.</p> <p>Statistical association and cause effect relationship: Evaluation of the presence of valid statistical association, judgment of a cause-effect relationship.</p> <p>Social science methods: Different social science methods, questionnaire designing and validation.</p>
Unit IV	<p>Drug discovery and evaluation:</p> <p>Historical approaches in drug discovery, pharmacological approaches of modern medicine, new approaches in drug discovery, pharmacological evaluation of acute, sub-acute, chronic toxicity studies, pharmacological evaluation methods, and OECD guidelines.</p>
Unit V	<p>Descriptive statistics and Probability</p> <p>Presentation and summarization of data, types of variables, data presentation, tables, charts and diagrams.</p> <p>Measures of central tendency and location, mean, median, mode, position average, and percentile.</p> <p>Measures of dispersion, Range, inter-quartile range, mean deviation, standard deviation and coefficient of variation.</p> <p>Probability, Probability scale, measurement of probability, laws of probability for independent events, conditional probability, Bayes theorem. Probability distribution, binomial distribution, Poisson distribution, normal distribution, t distribution.</p>
Unit VI	<p>Correlation & Regression, Inferential statistics and Non-parametric methods</p> <p>Utility of scatter plot, Correlation, linear regression, multiple regression and logistic regression.</p> <p>Sampling, Population, sample, sampling variations and bias, probability sampling methods, concepts in calculation of sample size.</p> <p>Evaluating role of chance, inferential statistics, hypothesis testing, test of statistical significance, p value, confidence intervals</p> <p>Confidence interval for mean, statistical test of significance for difference between</p>

	<p>two means and more than two means (ANOVA).</p> <p>Confidence interval for proportion, statistical test of significance for difference between two proportions and more than two proportions (chi-squared test).</p> <p>Non parametric methods: Sign test, Wilcoxon signed-rank test, median test, Mann-Whitney test, Kruskal-Wallis test, Friedman test, Spearman rank correlation coefficient. Advantages, disadvantages and application of non-parametric tests.</p>
Unit VII	<p>Research Ethics Involving Human Participants</p> <p>Ethics and biomedical research: General principles on ethical considerations involving human subjects, ethical review procedures, Institutional ethics committee, its organization and functions, general ethical issues. Specific principles for clinical evaluation of drugs/devices/ diagnosis/vaccines/herbal remedies, specific principles in epidemiological studies, specific principles in human genetic research, specific principles for research in transplantation including fetal tissue implantation.</p>
Unit VIII	<p>Research Ethics Involving Laboratory Animals</p> <p>Ethical guidelines for experimental animals: Sources of experimental animals, Lab. animal husbandry and management, anaesthesia and euthanasia, laboratory animal ethics, animal ethics committee, its organization and functions, ethical guidelines for use of animals for scientific research, CPCSEA guidelines, in-vitro system to replace animals, legal provisions for experimentation of animals.</p>
Unit IX	<p>Responsible Conduct of Research</p> <p>Values of research, Research misconduct & handling misconduct, Responsible authorship & publication, Peer review, Reviewing and reporting research, Mentoring, Conflict of interest, Collaborative research, Registration with Clinical Trials-Registry India, International Committee for Medical Journal Editors guidelines.</p>
Unit X	<p>Computer Application: Introduction to computers; Introduction to internet</p> <p>Scientific research; Stages of scientific research; Rules for proper research; Academic publishing; Scientific literature - Scientific journal articles - Types - Research paper, Case series/reports, Review paper, Position paper ; Publishing process – Peer review; Scientometrics-Impact factor (IF) - Journal Citation Reports, SCImago Journal Ranking, H-index and its application</p>
Unit XI	<p>Citations and Referencing; Cross reference, Crossmark; Citation content; Unique identifiers - ISBN, DOI, PMID; Citation styles - Harvard and Vancouver styles; Software for referencing - Endnote, Zotero, Mendeley</p>
Unit XII	<p>Scientific misconduct; Responsibility of Authors/Co-authors, Educational institutions; Plagiarism, self-plagiarism, roeting; Source criticism - Epistemology, Library and information science (LIS); Plagiarism detection - Computer-assisted plagiarism detection - Citation-based plagiarism detection, Stylometry, anti-plagiarism software, avoiding plagiarism.</p>

Reference books:

- 1) Epidemiology in medicine, Charles H.Hennekens and Jules E.Burling.(1987)
- 2) Oxford Text Book of Public Health (5th edition), volume Oxford University press.(2011)
- 3) Essentials of Medical Statistics by Belty R. Kirkwood.(2011)
- 4) An Introduction to biostatistics by P.S.S. Sundar Rau.(2006)
- 5) National Ethical Guidelines for Biomedical & Health Research involving human participants, ICMR, New Delhi 2017
- 6) Guidelines for care and use of animals in scientific research. Indian National Science Academy, New Delhi.
- 7) Research Methodology, methods and techniques by C.R. Kothari.(2009)
- 8) Basic epidemiology, 2nd edition, R Bonita, R Beaglehole and T Kjellstrom (2007)
- 9) Statistical methods in medical research, 4th edition, P Armitage, G Berry and JNS Matthews. (2001)
- 10) Biostatistics: A foundation for analysis in health sciences, 9th edition, Wayne W Daniel (2008)
- 11) Computer fundamentals Pradip K.Singha and Priti Singha (BPB Publication)
- 12) The Internet: A users guide K. L. James (PHI publication)
- 13) Internet Research skill (SAGE publication) Niall O Dochartaigh
- 14) Microsoft office system (PHI publication)
- 15) How to keep your Research Project on Track- Keith Town send - 2018

Online Resources:

<http://nptel.ac.in/>

<http://cpcsea.nic.in>

https://icmr.nic.in/ethical_guidelines.pdf

Ph.D. Degree Program		
THEORY QUESTION PAPER PATTERN FOR UNIVERSITY EXAMINATIONS		
<u>RESEARCH METHODOLOGY AND COURSE WORK EXAMINATION</u>		
Course Code: U0222CT101		
Course Title: Research Methodology, Biostatistics & Computer Applications		
Time: 3 Hours	Maximum Marks : 100	
Answer ALL questions		
Part A		
Pattern & Choices	Marks	Total Marks
Essay question 1 [with two sections A & b) or subsections]	1 x 40 marks [each section 20 marks]	40
Part B		
Short essay questions 6	6 x 10 marks	60
Total (A+B)		100

2. Research and Publication Ethics - U0222CT102

Course No.	Course Title	Credits for program	University Exam Marks		Grand Total
		Credits	Theory	Practical	
U0222CT102	Research and Publication Ethics*	2	50	-	50

(Research and Publication Ethics UGC) https://www.ugc.ac.in/pdfnews/9836633_Research-and-Publication-Ethics.pdf

Learning description
This course has total 6 units focusing on basics of philosophy of science and ethics, research integrity, publication ethics. Hands-on-sessions are designed to identify research misconduct and predatory publications. Indexing and citation databases, open access publications, research metrics (citations, h-index, Impact Factor, etc) and Plagiarism tools will be introduced in this course.

Theory	
Unit I	Philosophy and Ethics (3 hrs.) 1) Introduction to philosophy: definition, nature and scope, concept, branches 2) Ethics: definition, moral philosophy, nature of moral judgements and reactions
Unit II	Scientific Conduct (5 hrs.) 1) Ethics with respect to science and research 2) Intellectual honesty and research integrity 3) Scientific misconducts : Falsification, Fabrication and Plagiarism (FFP) 4) Redundant publications : duplicate and overlapping publications, salami slicing 5) Selective reporting and misrepresentation of data
Unit III	Publication Ethics (7 hrs.) 1) Publication ethics : definition, introduction and importance 2) Best practices/standards setting initiatives and guidelines: COPE, WAME, etc. 3) Conflicts of interest 4) Publication misconduct : definition, concept, problems that lead to unethical behaviour and vice versa, types 5) Violation of publication ethics, authorship and contributor ship 6) Identification of publication misconduct, complaints and appeals 7) Predatory publishers and journals
Practice	
Unit IV	Open access publishing (4 hrs.) 1) Open access publications and initiatives 2) SHERPA/RoMEO online resource to check publisher copyright & self-archiving policies 3) Software tool to identify predatory publication developed by SPPU 4) Journal finder/journal suggestion tools viz. JANE, Elsevier Journal Finder, Springer Journal Suggester, etc.

Unit V	<p>Publication Misconduct (4 hrs.)</p> <p>a. Group Discussions</p> <ol style="list-style-type: none"> 1) Subject specific ethical issues, FFP, authorship 2) Conflicts of interest 3) Complaints and appeals: examples and fraud from India and abroad <p>b. Research Metrics</p> <ol style="list-style-type: none"> 1) Impact Factor of journal as per Journal Citation Report, SNIP, SJR, IRP, Cite Score 2) Metrics : h-index, g-index, i10 index, altmetrics
---------------	--

References

Bird, A. (2006). Philosophy of Science. Routledge.
 MacIntyre, Alasdair (1967) A Short History of Ethics. London
 P.Chaddah,(2018) Ethics in Competitive Research: Do not get scooped; do not get plagiarized, ISBN:978-9387480865
 National Academy of Sciences, National Academy of Engineering and Institute of Medicine. (2009). On Being a Scientist: A Guide to Responsible Conduct in Research: Third Edition. National Academies Press.
 Resnik, D.B. (2011). What is ethics in research & why is it important. National Institute of Environmental Health Sciences, 1-10. Retrieved from https://www.niehs.nih.gov/research/resource/bioet_hics/whatis/index.cfm
 Beall, J.(2012). Predatory publishers are corrupting open access. Nature, 489(7415), 179-179. <https://doi.org/10.1038/489179a>
 Indian National Science Academy (INSA), Ethics in Science Education, Research and Governance (2019), ISBN: 978-81-939482-1-7. http://www.insaindia.res.in/pdf/Ethics_Book.pdf

*Research Ethics https://swayam.gov.in/nd2_ugc19_ge04/preview by Shri. Manoj Kumar K| Central University of Himachal Pradesh and 10 others

<p>Ph.D. Degree Program THEORY QUESTION PAPER PATTERN FOR UNIVERSITY EXAMINATIONS RESEARCH METHODOLOGY AND COURSE WORK EXAMINATION</p>		
<p>Course Code: U0222CT102 Course Title: Research and Publication Ethics Time: 2 Hours Maximum Marks : 50</p>		
<p>Answer ALL questions</p>		
Pattern & Choices	Marks	Total Marks
Essay question 1 [with sub headings or problems]	1 x 20 marks	20
Short essay questions 3	3 x 10 marks	30
TOTAL		50

3. Advanced Course in Area of Research - U0222CT103

Course No.	Course Title	Credits for program	University Exam Marks		Grand Total
		Credits	Theory	Practical	
U0222CT103	Advanced Course in Area of Research	3	100	-	100

Learning Objectives	Learning outcomes
To be defined by RAC	To be defined by RAC
Syllabus in Units and References to be defined by the RAC- Format provided below	

Name of the Candidate: _____

Reg. No. _____

Faculty: _____

Name of the Research Supervisor:

Signature:

Designation:

Date:

Unit I	Syllabus in Units and References to be defined by the RAC
Unit II	
Unit III	
Unit IV	
Unit V	

Reference books:

Ph.D. Degree Program		
THEORY QUESTION PAPER PATTERN FOR UNIVERSITY EXAMINATIONS		
<u>RESEARCH METHODOLOGY AND COURSE WORK EXAMINATION</u>		
Course Code: U0222CT103		
Course Title: Advanced Course in Area of Research		
Time: 3 Hours	Maximum Marks : 100	
Answer ALL Questions		
Part - A		
Pattern & Choices	Marks	Total Marks
Essay question 1 [with sub headings or problems]	1x 40 marks	40
Part B		
Short essay questions 3	3 x 20 marks	60
TOTAL		100

Template for CUSTOMISED QP to be generated by RAC

CONFIDENTIAL
To be printed by the Research Supervisor on the day of examination. Copy to be submitted with answer scripts after evaluation.

Course Code: U0222CT103

Date:

DEGREE OF DOCTOR OF PHILOSOPHY (Ph. D.)
RESEARCH METHODOLOGY AND COURSE WORK EXAMINATION, mm-yyyy
(At the end of one year from the date of provisional registration)

Name of the Research Scholar:

Registration Number:

PART - I

Course Title: An advanced Course in the area of Research

Time: 3 Hours

Maximum Marks: 100

Answer ALL Questions

PART-A

(1 x 40 = 40 marks)

I. _____

PART-B

(3 x 20 = 60 marks)

II. Write short essay on:

a) _____

b) _____

c) _____

Signature:

Name of Supervisor:

Date:

(Note: Two copies must be made ready for examination, one copy given to candidate, one copy signed by the candidate must be enclosed with answer sheet submitted Academic office after evaluation)

4. Review of Literature and Research Proposal - U0222CL104

Course No.	Course Title	Credits for program	University Exam Marks		Grand Total
		Credits	Theory	Practical	
U0222CL104	Review of Literature and Research Proposal	3	-	100	100
Learning Objectives		Learning outcomes			
Literature review and analysis for the given research topic		Student should: <ul style="list-style-type: none"> • Do a scoping /Systematic review or met analysis on the current status, National status and International status from Literature • Identify lacunae in research and • State two or three specific areas of research required to solve a problem 			
<p>Student may submit a research proposal in a common format approval by Deemed University Ph.D. Board. Ph.D. Candidates could collect literature on the given broad area of research and do a scoping/systematic Review and meta-analyses of data. The review maybe analyzed to obtain key indicators in that area.</p> <ul style="list-style-type: none"> • Develop a viable project of personal research and the strategy to complete this; • Evaluate and discuss information sources available/experimental approaches/results obtained etc. as appropriate; • Complete the review and submit a written project Pre- Proposal which shows evidence of an understanding of research methods, access and application of information sources, and an ability to write an account of a scientific topic for a specified audience; and • Demonstrate the exercising of individuals’ reflective thinking; planning an experiment or optimizing variables (identify them from literature). <p>They could also identify lacunae – two or more topics such that the feasibility of finalizing a research topic is possible. It should include appropriate research methodologies, tools needed and the applicability of the research in our communities; relational analysis of this area of research and its impact in that area.</p>					
<p>References: http://www.ccace.ed.ac.uk/research/software-resources/systematic-reviews-and-meta-analyses</p>					

Ph.D. Degree Program For University Examinations RESEARCH METHODOLOGY AND COURSE WORK EXAMINATION			
Course Code: U0222CL104			
Course Title: Review of Literature and Research Proposal		Maximum Marks: 100	
Format for submission of Research proposal			
Contents for a One hard copy to be submitted: Soft binding only			
Sl.No.	Contents	Guideline	No. of Pages
1.	Title	Working Title as defined in the Proposal Review I. If the title carries the name of a species then Latin names (italicized) with the author citation is required e.g., <i>Amaranthus retroflexus</i> L.) as per model given (for Synopsis)	As per format
2.	Certificate	Certificate from RAC members	As per format
3.	Table of Content	With page numbers	1
4.	Introduction, Review of Literature	<ul style="list-style-type: none"> • Nature and significance of the problem/study- from Universal outlook to India and then Chennai • Highlights of Review of Literature - to identify the lacunae in research or justification for the problem 	5
5.	Statement of the Problem, Scope of Work, Study design and Methodology	<ul style="list-style-type: none"> • Why the researcher selected this problem • Objectives- primary and secondary • Hypotheses- alternate/null (if any) • Includes a strategy for research study/study design • Sampling and sample size; Data analysis 	6-7
6.	Results	Salient results with data (if available) GANNT chart of Milestones achievable	2-3
7.	References	Vancouver style	2
8.	Appendix (as applicable)	<ul style="list-style-type: none"> • IEC/CTR/IAEC submission letter • List of Publications/Submission in indexed journals by the scholar • The first page of publication or communication from the journal • List of conference presentations/posters by the scholar 	3

**Cover Page for Review of
Literature and Research**



SRI RAMACHANDRA

INSTITUTE OF HIGHER EDUCATION AND RESEARCH

(Category - I Deemed to be University) Porur, Chennai

-----**TITLE**-----

Course Code: U0222CL104

Course Title: Review of Literature and Research Proposal

Submitted for the **RESEARCH METHODOLOGY AND COURSE WORK EXAMINATION**
for the Degree of Doctor of Philosophy (Ph.D.)

by

---- **Name** -----

Reg. No



DECLARATION BY THE RESEARCH ADVISORY COMMITTEE

We hereby certify that, the research described in the Review of Literature and Research Proposal of the Ph.D. titled '-----' is based on the bonafide work carried out by ----- (Ph.D. Registration No: -----) under our guidance and supervision.

Name and Designation	Signature with Date & Dept. Seal
Research Supervisor:	
Research Co-Supervisor/ RAC Member:	
RAC Member	

5. U0222CL105 - Viva-Voce

Course No.	Course Title	Credits for program	University Exam. Marks		Grand total
		Credits	Theory	Practical	
U0222CL105	Viva-Voce	2	-	50	50

Learning Objectives	Learning Outcomes
Assess research ability and aptitude of the student	Supervisor and RAC members should strongly recommend and assess the feasibility of the proposed research.
Student should make a 30 minutes presentation on the chosen research area, relevance, objectives, scientific study methods and its impact on research contributions. The student should also have obtained the Institutional ethical committee clearances. After this presentation a formal research proposal – with recommendations by RAC, maybe submitted to the Ph.D. Section as the Ph.D. Proposal by the student for confirmation of registration. [format provided]	

ANNEXURE – VI



GUIDELINES FOR SUBMISSION OF SYNOPSIS OF Ph.D.

1. The synopsis should be submitted not less than **three** months before submission of Thesis.
2. Every scholar must complete Ph.D. Program Review-II (Regulation No.13.4.3) prior to submission of synopsis
3. The scholar must have at least two publications as one publication the scholar should be the first author and the data must emanate from the research conducted for Ph.D. The other publication could be a scoping review/systematic review/research note/original article related to the Ph.D. work, where the scholar is an author/co-author with his/her contribution to the publication clearly defined in indexed (Scopus, WoS, PubMed) journals on work emanating from the Ph.D. topic. (**PGMC certificate be enclosed**) at the time of submission of the synopsis.
4. All fees must be paid to date.
5. The prescribed fee of Rs.25,000/- in the form of Demand Draft drawn in favour of 'Sri Ramachandra Institute of Higher Education & Research (DU)' payable at Chennai. (Only for candidates admitted until Oct 2023 Session).
6. The following should be enclosed at the time of submission of synopsis:
 - a) A covering letter [from supervisor to COE].
 - b) Completed synopsis application form with a copy of synopsis submission fee receipt.
 - c) Original Post graduate Degree Certificate. (This will be returned after the declaration of result of Ph.D.)
 - d) One hard copy of synopsis should be submitted and after approval by University level committee, the scholar required to submit one hardcopy and one soft copy.
 - e) The synopsis should append the copy of the first page of publication/ communication from journal confirming acceptance. Please indicate publications as first or corresponding author indexed (Scopus/ Web of Science / PubMed) Journals
 - f) Panel of Experts/Examiners from supervisor in a prescribed format received from CoE office in sealed cover
7. The format for synopsis :
 - a) The synopsis should be soft bound
 - b) Outer cover in white photo paper [**thin board**] with black tape
 - c) The cover page should be as per the format (enclosed).
 - d) Certificate from RAC as per the format (enclosed).
 - e) The content page should include page numbers.
 - f) Maximum number of pages 30 (excluding title page, certificate, index, bibliography and appendix)
 - g) The synopsis should be typed in A4 Size (70-110 GSM Paper)
 - Double side printing
 - Font Times New Roman, size 12
 - Margin 1 inch from Top & Bottom
 - Margin 1.5 inch for Left & Right
 - Lines Spacing: 1.5
 - Page numbering starts from introduction chapter (at bottom right side)

Format for Ph.D. Synopsis**Contents for a hard copy of synopsis to be submitted**

Sl. No.	Contents	Guideline	No. of Pages
1	Title	A title should highlight an important aspect of the research study; important diagnostic technique; path breaking hypothesis etc. If the title carries the name of a species then Latin names (italicized) with the author citation is required e.g., <i>Amaranthus retroflexus</i> L.)- as per model given	As per format
2	Certificate	Certificate from RAC members	As per format
3	Table of Content	With page numbers	
4	Introduction	Maximum 600 words / 3 paragraphs. The content must highlight the current knowledge, knowledge gap, research question addressing the knowledge gap leading to the current research.	1-2
5	Need for the Study	Maximum 150 words. This part must explain how the study will address the research gap and improve the current practice / knowledge (Separate Page)	1
6	Review of Literature	Selected articles supporting the existing knowledge / Research gap and articles supporting the methodology. Subheadings may be used to group the articles. Table can be used to represent author / year, Sample size / Population / Subject / Material studied / Result / Remark from the scholar. A summary under each sub heading will be useful.	2
7	Aim and Objectives	A single statement defining the intention of the study. - 2 to 3 statements defining what the study intends to find.	2
8	Methodology	I. Should mention study design II. Sample size Calculation III. Inclusion / Exclusion criteria IV. Procedure of the study Must indicate data collected, statistical analysis proposed. The data collected must meet the need of objectives. A table can be used to specify statistical analysis relevant to data.	2-3
9	Results	In Synopsis use only 2 to 3 critical tables to explain objectives. Graphs may be used only if required.	2-3
10	Discussion	Justify findings in reference to objectives of the study.	2-3
11	Conclusions	Important points from the study must be aligned with objectives. Can highlight new knowledge emerged	1

		from the study. (as 3 to 4 points)	
12	References	Vancouver style	2
13	Appendix	- List of Publications in indexed journals by the scholar - The first page of publication or acceptance letter communication from the journal - List of conference presentations/ posters by the scholar	

The draft synopsis must be signed by the supervisor and email approval of the draft synopsis from RAC members will be accepted. The final synopsis must have the signatures of all the members of the RAC.

Template for Cover Pages for Synopsis of Ph.D.: Instructions

1. Please see the attached PDF 'model template' before filling in the template for your Synopsis.
2. Please follow the guidelines listed below for each page with reference to formatting of font & size for each sections.

Page 1 (Outer cover page)

Title of Thesis	17 Bold, Times New Roman, All Caps
Name of Candidate	16 Bold, Times New Roman, Title Case
Department & Faculty	13 Bold, Times New Roman, Title Case
Month & Year	14 Bold, Times New Roman

Page 2 (Inside cover page)

Title of Thesis	17 Bold, Times New Roman, All Caps
Name of Candidate & Ph.D. Reg. No.	16 Bold, Times New Roman, Title Case
Department & Faculty	13 Bold, Times New Roman, Title Case
Month (in Full) & Year	14 Bold, Times New Roman

Page 3 (Declaration Page)

Title of Thesis	12 Bold, Times New Roman, Sentence case
Name of Candidate & Ph.D. Reg.No.	12 Bold, Times New Roman
Name of all RAC members	11 Bold, Times New Roman
Designation and Address	10 Unbold, Times New Roman

Note:

- 1) Delete either Research Co-Supervisor/RAC member whichever is applicable.

OUTER COVER PAGE



SRI RAMACHANDRA
INSTITUTE OF HIGHER EDUCATION AND RESEARCH
(Category - I Deemed to be University) Porur, Chennai

-----**TITLE**-----

**Synopsis of the thesis to be submitted for the Degree of
Doctor of Philosophy (Ph.D.)**

by

-----**Name**-----

-----**Reg. No.**-----

INSIDE COVER PAGE



SRI RAMACHANDRA
INSTITUTE OF HIGHER EDUCATION AND RESEARCH
(Category - I Deemed to be University) Porur, Chennai

----- **TITLE** -----

**Synopsis of the thesis to be submitted for the Degree of
Doctor of Philosophy (Ph.D.)**

by

-----**Name**-----

-----**Reg. No.**-----

-----**Month & year** -----



DECLARATION BY THE RESEARCH ADVISORY COMMITTEE

We hereby certify that, the research described in the synopsis of the Ph.D. thesis titled ‘-----’ is based on the bonafide work carried out by ----- (Ph.D. Registration No: -----) under our guidance and supervision. This work has not previously formed the basis for the award of any degree, diploma, associateship, fellowship or similar titles in this Deemed University or any other University or other similar Institution of higher learning.

Name and Designation	Signature with Date & Dept. Seal
Research Supervisor:	
Research Co-Supervisor/ RAC Member:	
RAC Member:	



Format to be used by scholars under (Integrated MD/MS-Ph.D.- ICMR-TSS Fellowships)

DECLARATION BY THE RESEARCH ADVISORY COMMITTEE

We hereby certify that, the research described in the synopsis of the Ph.D. thesis under the category “Integrated (MD/MS-Ph.D.- ICMR-TSS Fellowships)” titled ‘-----’ is based on the bonafide work carried out by ----- (Ph.D. Registration No. -----) under our guidance and supervision. This work has not previously formed the basis for the award of any other degree, diploma, associate-ship, fellowship or similar titles in this Deemed University or any other University or other similar Institution of higher learning.

Name and Designation	Signature with Date & Dept. Seal
Research Supervisor:	
Research Co-Supervisor/ RAC Member:	
RAC Member:	

ANNEXURE – VII



GUIDELINES FOR SUBMISSION OF Ph.D. THESIS

The prescribed fee in the form of Demand Draft in favour of 'Sri Ramachandra Institute of Higher Education and Research (DU)' payable at Chennai.

Two copies of the Thesis should be submitted along with the Ph.D. thesis Application form and the prescribed fee. After the public viva-voce, ONE copy of the thesis with corrections incorporated (if any) should be submitted.

1. The format for Thesis is given below:-

- a) The Thesis should be in hard bound volume, white cover (without rexine cover and brass edges)
- b) The cover page and spine should be as per the format (enclosed).
- c) Declaration certificate from scholar as per format (enclosed).
- d) Certificate from Supervisor and Co-Supervisor (if any) as per format (enclosed).
- e) Plagiarism Check Certificate should be included as per format
- f) The table of content page should include page numbers.
- g) Maximum number of pages 250 (excluding title page, certificates, Table of content, bibliography and appendix) and the weight of the thesis should not be more than 2 kgs.
- h) The thesis should be typed in A4 size 70-110 GSM paper:-
 - Thesis shall be printed double sided from Introduction
 - Font Times New Roman, size 12
 - Margin 1 inch for Top, Bottom
 - Margin 1.5 inch on either side (right & left)
 - Lines Spacing: 1.5
 - Page numbering starts from Introduction chapter to Conclusion
 - Header: chapter name for each page (font size-8) right aligned
 - Footer: title of the thesis for each page (font size-8) left aligned

Format for Ph.D. THESIS
Contents for a hard copy of Thesis to be submitted

Sl.No.	Contents	Guideline	No. of Pages
1.	Title	Approved Title	As per format
2.	Certificate	Declaration Certificate from scholar	As per format
3.	Certificate	Certificate from Supervisor and Co-Supervisor	As per format
4.	Certificate	Plagiarism Verification Certificate	As per format
5.	Index Page	With page numbers	
6.	Ethics Clearance	Communication from Institutional Ethics Committee	
7.	Thesis Manuscript	a) Abstract <ul style="list-style-type: none"> • Introduction • Review of Literature • Methodology • Results • Discussions • Summary recommendations ** • Conclusions 	Maximum 250 pages and less than 2 kgs.
8.	Bibliography	Vancouver style	
9.	Appendix	Those relating to study	
10.	Certifications, Publications & Presentations and awards	<ul style="list-style-type: none"> • Any certifications obtained as part of research studies • List of Publications in peer-reviewed indexed journals by the scholar (append full copy of all publication) • List of conference presentations/posters by the scholar • List of awards 	
11.	Plagiarism Report	From Publications Guidelines and Monitoring Committee (PGMC)	

Format of Abstract:

- a) Structured abstract shall be included in the hard bound copy and soft copies of all Ph.D. Thesis submitted to the University and thereafter to the Library. This abstract shall be included before the Introduction page of the thesis. Word Count \leq 250 words; (NO special characters like % allowed) Structure: (without these subtitles)

Background and purpose:

Method/experimental schematic / design:

Results/outcome:

Most salient contributions/ Conclusions:

Keywords: (five)

The above abstract uploaded in Shodhganga shall be available at a later stage for verification/ attestation/apostille purposes. Kindly follow these instructions as the abstract shall support your future aspirations.

Format of summary:

One page summary of salient findings from the research [must bring out the actual contributions to this field of research, innovations, patents granted, and or uniqueness of their results].

Must indicate if the study is useful to the society, impacts the local populations or provides a solution that can influence the region/ society.

Half of this page should highlight:

Future plan of work and suggest novel areas to be studied

COVER PAGE



SRI RAMACHANDRA
INSTITUTE OF HIGHER EDUCATION AND RESEARCH
(Category - I Deemed to be University) Porur, Chennai

-----**TITLE**-----

**Thesis submitted for the Degree of
Doctor of Philosophy (Ph.D.)**

by

-----**Name**-----

-----**Reg. No.**-----

Department of -----

Faculty of -----

Month & Year -----

INSIDE FIRST PAGE



SRI RAMACHANDRA

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(Category - I Deemed to be University) Porur, Chennai

-----**TITLE**-----

**Thesis submitted for the Degree of
Doctor of Philosophy (Ph.D.)**

by

-----**Name**-----

-----**Reg. No.**-----

Department of -----

Faculty of -----

Month & Year -----



SRI RAMACHANDRA
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(Category - I Deemed to be University) Porur, Chennai

-----**TITLE**-----

**Thesis submitted for the Degree of
Doctor of Philosophy (Ph.D.)**

by

-----**Name**-----

-----**Reg. No.**-----

Research Advisory Committee

Research Supervisor:

Research Co-Supervisor/ RAC Member

RAC Member:



DECLARATION

I declare that this thesis entitled '-----'
submitted by me for the degree of Doctor of Philosophy (Ph.D.) is the bonafide record of
research conducted under the supervision of ----- and co-supervision
of ----- and has not formed the basis for the award of any degree, diploma,
associate ship, fellowship or similar titles in this Deemed University , any other University or
other similar Institution of higher learning.

Date:

Signature of the candidate

Place:



CERTIFICATE

I certify that the thesis entitled `-----`
submitted for the Degree of Doctor of Philosophy by ----- (Reg. No.-----
-----) is the bonafide record of research work carried out under my supervision and
that to the best of my knowledge no part of this research work has formed the basis for the
award of any degree, diploma, associateship, fellowship or other similar titles in this
Deemed University, any other University or any other similar Institution of higher learning.

Date:

Signature of the Supervisor

Place:

With Seal



CERTIFICATE

I certify that the thesis entitled `-----`
submitted for the Degree of Doctor of Philosophy by -----(Reg.
No. -----) is the bonafide record of research work and that to the best of my
knowledge no part of this research work has formed the basis for the award of any degree,
diploma, associateship, fellowship or other similar titles in this Deemed University, any
other University or any other similar Institution of higher learning.

Date:

Signature of the Co-Supervisor

Place:

With Seal



SRI RAMACHANDRA
INSTITUTE OF HIGHER EDUCATION AND RESEARCH
(Category - I Deemed to be University) Porur, Chennai

Format to be used by scholars under (Integrated MD/MS-Ph.D.- ICMR-TSS Fellowships)

DECLARATION

I declare that this thesis titled '-----'
submitted by me for the degree of Doctor of Philosophy (Ph.D.), under the category
"Integrated MD/MS-Ph.D.,ICMR-TSS Fellowships" is the bonafide record of research
conducted under the supervision of ----- and co-supervision of -----
-----, and has not formed the basis for the award of any other degree, diploma,
associate ship, fellowship or similar titles in this Deemed University, any other University or
other similar Institution of higher learning.

Date:

Signature of the candidate

Place:



SRI RAMACHANDRA
INSTITUTE OF HIGHER EDUCATION AND RESEARCH
(Category - I Deemed to be University) Porur, Chennai

CERTIFICATE

I certify that the thesis titled '-----' submitted for the Degree of Doctor of Philosophy by ----- (Reg No. -----) under the category "Integrated MD/MS-Ph.D.- ICMR-TSS Fellowships" is the bonafide record of research work carried out under my supervision and that to the best of my knowledge no part of this research work has formed the basis for the award of any other degree, diploma, associateship, fellowship or other similar titles in this Deemed University, any other University or any other similar Institution of higher learning.

Date:
Place:

Signature of the Supervisor
With Seal



SRI RAMACHANDRA
INSTITUTE OF HIGHER EDUCATION AND RESEARCH
(Category - I Deemed to be University) Porur, Chennai

CERTIFICATE

I certify that the thesis titled `-----` submitted for the Degree of Doctor of Philosophy by ----- (Reg No. -----) under the category "Integrated MD/MS-Ph.D.- ICMR-TSS Fellowships" is the bonafide record of research work carried out under my Co-supervision and that to the best of my knowledge no part of this research work has formed the basis for the award of any other degree, diploma, associateship, fellowship or other similar titles in this Deemed University, any other University or any other similar Institution of higher learning.

Date:

Place:

Signature of the Co-Supervisor

With Seal

Ph.D. Thesis

of

Name of Scholar -----



ANNEXURE – VIII



PLAGIARISM VERIFICATION CERTIFICATE

[As per UGC (Promotion of Academic Integrity and Prevention of Plagiarism in Higher Educational Institutions) Regulations, 2018]

It is certified that Mr./Mrs..... Reg. No..... has carried out his/her Ph.D. research titled
.....
.....
..... and the said doctoral thesis has been checked by University approved Plagiarism Software . I have reviewed the report of the plagiarism software and the similarity index is i.e., satisfies the accepted norms of the University. The plagiarism verification report is enclosed (appendix).

Signature and Seal of the Supervisor

Date:



SRI RAMACHANDRA

INSTITUTE OF HIGHER EDUCATION AND RESEARCH
(Category - I Deemed to be University) Porur, Chennai

ANNEXURE - IX

NCHAP PH.D. GUIDELINES

1. DISCIPLINE: PHYSIOTHERAPY

Eligibility Criteria for Research Scholars

1. Full time Post Graduate degree in Physiotherapy from a recognized university for enrolment in Ph.D.in Physiotherapy in the respective University.
2. The scholars should have passed Post Graduate with a minimum of 55% marks.
3. Working in Teaching Institution/Hospital can opt for Part Time PhD.

Admission Procedure

Selection for the Ph.D. Program will be based on merit by university entrance examination.

Board of Research/Doctoral Studies:

The Board/Committee will consist of

1. Dean
2. Ph.D. Qualified Committee Members
3. Two Subject Experts.

2. DISCIPLINE: OCCUPATIONAL THERAPY

Eligibility criteria for admission to the Ph.D. Programme

Candidates for admission to the Ph.D. programme shall have successfully completed:

- a) **A 2-year regular on campus Master's degree program in occupational therapy after regular Bachelor's degree in Occupational Therapy.**
- b) The candidate must attain at least 55% marks in aggregate or its equivalent grade in a point scale wherever grading system is followed in the Master's degree or equivalent qualification from a foreign educational institution accredited by an assessment and accreditation agency which is approved, recognized or authorized by an authority, established or incorporated under a law in its home country or NCAHP or any other statutory authority in that country to assess, accredit or assure quality and standards of the educational institution.
- c) A relaxation of 5% marks or its equivalent grade may be allowed for those belonging to SC/ST/OBC (non-creamy layer)/Differently Abled, Economically Weaker Section (EWS) and other categories of candidates as per the decision of the Commission from time to time.
- d) Note: The eligibility marks of 55% (or an equivalent grade in a point scale wherever grading system is followed and the relaxation of 5% to the categories mentioned above are permissible based only on the qualifying marks without including the grace mark procedures, if any.
- e) A relaxation of 0.5 score in CGPA or an equivalent relaxation of grade may be allowed for those belonging to SC/ST/OBC (non-creamy layer)/Differently Abled, Economically Weaker Section (EWS) and other categories of candidates as per the decision of the Commission from time to time.

Admission Procedure

- a) All Universities shall admit Ph.D. Scholars through a National Eligibility Test (NET) or National Entrance Test or an Entrance test conducted by NCAHP or University/HEI or any other Entrance test as per the norms of University offering PhD admissions.
- b) The admission shall be based on the criteria notified by the institution, keeping in view the guidelines/norms in this regard issued by the NCAHP, and taking into account the reservation policy of the Central/State Government from time to time.
- c) The Entrance Test syllabus shall consist of 50% of Research methodology and Biostatistics, and 50% shall be Occupational therapy.
- d) Students who have secured 50 % marks in the entrance test are eligible to be called for the interview.
- e) A relaxation of 5 % marks will be allowed in the entrance examination for the candidates belonging to SC/ST/OBC/ Economically Weaker Section (EWS), and other categories of candidates as per the decision of the Commission from time to time.
- f) HEIs/ University may decide the number of eligible students to be called for an interview based on the number of Ph.D. seats available.
- g) Provided that for the selection of candidates based on the entrance test conducted by the HEI/ universities , a weightage of 70 % for the entrance test and 30 % for the performance in the interview/viva- voce (interview shall be based on the selection of research study) shall be given.
- h) Universities and Colleges which are eligible to conduct Ph.D. programmes, shall: Notify a prospectus well in advance on the institution's website specifying the number of seats for admission, criteria for admission, the procedure for admission, and all other relevant information for the candidates; Adhere to the National/State-level reservation policy, as applicable.
- i) The HEIs shall maintain a list of Ph.D. supervisors (specifying the name of the supervisor, his or her designation, and the department/school/centre), along with the details of Ph.D. scholars (specifying the name of the registered Ph.D. scholar, the topic of his/her research and the date of admission) admitted under them on the website of the institution and update this list every academic year.

3. DISCIPLINE: EMERGENCY MEDICAL TECHNOLOGIST (PARAMEDIC) – TRAUMA CARE MANAGEMENT

Proposed Regulations

Eligibility Criteria

Candidates for admission to the Ph.D. programme shall have successfully completed:

- a) A **2-year/4-semester Master's degree programme**, (after 4 year undergraduate degree) with **at least 55% marks in aggregate** or its equivalent grade 'B' (or an equivalent grade in a point scale wherever grading system is followed) or an equivalent degree from a foreign educational institution accredited by an Assessment and Accreditation Agency which is approved, recognized or authorized by an authority, established or incorporated under a law in its home country or any other statutory authority in that country to assess, accredit or assure quality and standards of educational institutions.
- b) A candidate seeking admission after a **4-year/8 semester Bachelor's degree with Research should have a minimum CGPA of 7.0/10.**
- c) **A relaxation of 5% of marks, from 55% to 50%,** or an equivalent relaxation of grade, may be allowed for those belonging to SC/ST/OBC (non-creamy layer)/ Differently Abled, Economically Weaker Section (EWS) and other categories of candidates as per the decision of the Commission from time to time.
- d) Note: The eligibility marks of 55% (or an equivalent grade in a point scale wherever grading system is followed) and the relaxation of 5% to the categories mentioned above are permissible based only on the qualifying marks without including the grace mark procedures, if any.
- e) A relaxation of 0.5 score in CGPA or an equivalent relaxation of grade may be allowed for those belonging to SC/ST/OBC (non-creamy layer)/ Differently-Abled, Economically Weaker Section (EWS) and other categories of candidates as per the decision of the Commission from time to time.

Admission Procedure

All Universities shall admit Ph.D. Scholars through a National Eligibility Test (NET) or National Entrance Test or an Entrance test/exit exam conducted by NCAHP

4. DISCIPLINE: OPTOMETRY

Eligibility Criteria

Candidates for admission to the Ph.D. programme shall have successfully completed:

- a) A 2-year/4-semester Master's degree programme, (after 4 year undergraduate degree) with at least 55% marks in aggregate or its equivalent grade 'B' (or an equivalent grade in a point scale wherever grading system is followed) or an equivalent degree from a foreign educational institution accredited by an Assessment and Accreditation Agency which is approved, recognized or authorized by an authority, established or incorporated under a law in its home country or any other statutory authority in that country to assess, accredit or assure quality and standards of educational institutions.
- b) A candidate seeking admission after a 5-year/10-semester Bachelor's degree with Research should have a minimum CGPA of 7.0/10.**
- c) A relaxation of 5% of marks, from 55% to 50%, or an equivalent relaxation of grade, maybe allowed for those belonging to SC/ST/OBC (non-creamy layer)/ Differently Abled, Economically Weaker Section (EWS) and other categories of candidates as per the decision of the Commission from time to time.
- d) Note: The eligibility marks of 55% (or an equivalent grade in a point scale wherever grading system is followed) and the relaxation of 5% to the categories mentioned above are permissible based only on the qualifying marks without including the grace mark procedures, if any.
- e) A relaxation of 0.5 score in CGPA or an equivalent relaxation of grade may be allowed for those belonging to SC/ST/OBC (non-creamy layer)/Differently Abled, Economically Weaker Section (EWS) and other categories of candidates as per the decision of the Commission from time to time.

Admission Procedure

All Universities shall admit Ph.D. Scholars through a National Eligibility Test (NET) or National Entrance Test or an Entrance test/exit exam conducted by NCAHP

5. DISCIPLINE: NUTRITION AND DIETICS (EARLIER AS CLINICAL NUTRITION)

Eligibility Criteria

Candidates for admission to the Ph.D. programme shall have successfully completed:

- a) A 2-year/4-semester Master's degree program (after 4 year undergraduate degree) with at least 55% marks in aggregate or its equivalent grade 'B' (or an equivalent grade in a point scale wherever grading system is followed) or an equivalent degree from a foreign educational institution accredited by an Assessment and Accreditation Agency which is approved, recognized or authorized by an authority, established or incorporated under a law in its home country or any other statutory authority in that country to assess, accredit or assure quality and standards of educational institutions.
- b) A candidate seeking admission after a 5-year/10-semester Bachelor's degree in Research should have a minimum CGPA of 7.0/10.**
- c) A relaxation of 5% of marks, from 55% to 50%, or an equivalent relaxation of grade, may be allowed for those belonging to SC/ST/OBC (non-creamy layer)/Differently Abled, Economically Weaker Section (EWS) and other categories of candidates as per the decision of the Commission from time to time.
- d) Note: The eligibility marks of 55% (or an equivalent grade in a point scale wherever grading system is followed) and the relaxation of 5% to the categories mentioned above are permissible based only on the qualifying marks without including the grace mark procedures, if any.
- e) A relaxation of 0.5 score in CGPA or an equivalent relaxation of grade may be allowed for those belonging to SC/ST/OBC (non-creamy layer)/Differently Abled, Economically Weaker Section (EWS) and other categories of candidates as per the decision of the Commission from time to time.

Admission Procedure

All Universities shall admit Ph.D. Scholars through a National Eligibility Test (NET) or National Entrance Test or an Entrance test/exit exam conducted by NCAHP

6. DISCIPLINE: DIALYSIS THERAPY TECHNOLOGY

Eligibility Criteria for Research Scholars

- a) Full time Post Graduate degree in Dialysis Therapy from a recognized university for enrolment in Ph.D. in Dialysis Therapy in the respective University.
- b) The scholars should have passed Post Graduate with a minimum of 55% marks.
- c) Working in Teaching Institution/Hospital can opt for Part Time PhD.

Criteria for Selection

Selection for the Ph.D. Program will be based on merit or by university entrance examination

Board of Research/Doctoral Studies

The Board/Committee will consist of

- Dean
- Ph.D. qualified Committee Members
- One or Two Subject Experts.

7. DISCIPLINE: MEDICAL RADIOLOGY AND IMAGING TECHNOLOGY

Eligibility criteria for admission to the Ph.D. Programme

Candidates who have completed:

A 2-year/4-semester MMRIT degree programme after BMRIT or Equivalent Degree or a 1-year/2-semester master's degree programme after a 4-year/8-semester honors degree programme or a 2-year/4-semester master's degree programme after a 3-year bachelor's degree programme or qualifications declared equivalent to the master's degree by the corresponding statutory regulatory body of NCAHP, with at least 55% marks in aggregate or its equivalent grade in a point scale wherever grading system is followed or equivalent qualification from a foreign educational institution accredited by an assessment and accreditation agency which is approved, recognized or authorized by an authority, established or incorporated under a law in its home country or any other statutory authority in that country to assess, accredit or assure quality and standards of the educational institution.

A relaxation of 5% marks or its equivalent grade may be allowed for those belonging to SC/ST/OBC (non-creamy layer)/Differently Abled, Economically Weaker Section (EWS) and other categories of candidates as per the decision of the Commission from time to time.

Procedure for Admission

- a) The admission shall be based on the criteria notified by the institution, keeping in view the guidelines/norms in this regard issued by the NCAHP and other statutory/regulatory bodies concerned, and taking into account the reservation policy of the Central/State Government from time to time.
- b) Admission to the Ph.D. programme shall be made using the following methods:
 - i) HEIs may admit students who qualify for fellowship/scholarship in UGC-NET/UGCCSIR NET/GATE/CEED and similar National level tests based on an interview.
And/or
 - ii) HEIs may admit students through an Entrance Test conducted at the level of the individual HEI. The Entrance Test syllabus shall consist of 50% of research methodology, and 50% shall be subject- specific.
 - iii) Students who have secured 50 % marks in the entrance test are eligible to be called for the interview.
 - iv) A relaxation of 5 % marks will be allowed in the entrance examination for the candidates belonging to SC/ST/OBC/ differently-abled category, Economically Weaker Section (EWS), and other categories of candidates as per the decision of the Commission from time to time.
 - v) HEIs may decide the number of eligible students to be called for an interview based on the number of Ph.D. seats available.
 - vi) Provided that for the selection of candidates based on the entrance test conducted by the HEI, a weightage of 70 % for the entrance test and 30 % for the performance in the interview/viva- voce shall be given.

8. DISCIPLINE: ANAESTHESIA AND OPERATION THEATRE TECHNOLOGY**Eligibility:**

Candidates with Master's Degree in Anaesthesia and Operation Theatre Technology with a minimum of 55% marks in the qualifying examination are eligible for enrolment/registration for the Ph.D. program under the Faculty of Allied Health Sciences

Procedure for Admission:

- a) All Universities shall admit Ph.D. Scholars through a National Eligibility Test (NET) or National Entrance Test or an Entrance test conducted at the level of individual universities. Universities and Colleges under them which are allowed to conduct Ph.D. programmes shall: decide on an annual basis through their academic bodies a pre-determined and manageable number of Ph.D. scholars to be admitted depending on the number of available Research Supervisors and other academic, research, and physical facilities available.
- b) Notify well in advance on the institutional website and through advertisement in at least two (2) national newspapers, of which at least one (1) shall be in the regional language, the number of seats for admission, subject/discipline-wise distribution of available seats, criteria for admission, the procedure for admission, examination centre(s) where entrance test(s) shall be conducted and all other relevant information for the benefit of the prospective candidates.
- c) The admission shall be based on the criteria notified by the Institution.
- d) The syllabus of the Entrance Test shall consist of questions that test research/ analytical/ comprehension/quantitative aptitude. The Entrance Test shall be conducted at the Centre(s) notified in advance (changes of Centres, if any, also to be notified well in advance) by the organization conducting the examination. Qualifying marks in the entrance test will be 50%. An interview/viva-voce has to be organized by the University/ College concerned wherein the candidates are required to discuss their research interest/area through a presentation before a duly constituted Departmental Research Committee. The selection of qualified candidates should be based on interview/viva-voce, the selection shall be evaluated in the ratio 70 (written test), 30 (interview).

9. DISCIPLINE: HEALTH INFORMATION MANAGEMENT**Proposed Regulations****Eligibility criteria for admission to the Ph.D. program:**

- a) A candidate seeking admission to a Ph.D. program shall have successfully completed a two-year Master's degree program after a four years undergraduate program with at least 55% marks in aggregate or its equivalent from a recognized university.
- b) The institution shall establish a selection process for Ph.D. candidates as per the norms of the affiliated universities or UGC.

10. DISCIPLINE: PHYSICIAN ASSOCIATE**Proposed Regulations****ADMISSION CRITERIA**

Admission into the Ph.D. programme shall be governed by the relevant UGC norms and per criteria established by the NCAHP. In addition to the norms of UGC and NCAHP, admission into a Ph.D. programme for a PA should be limited to the applicants with the following qualifications currently.

- a) Master degree in Physician Associate studies



SRI RAMACHANDRA
INSTITUTE OF HIGHER EDUCATION AND RESEARCH
(Category - I Deemed to be University) Porur, Chennai

**REGULATIONS FOR
THE DEGREE OF DOCTOR OF PHILOSOPHY (Ph.D.) IN NURSING**

(as per Indian Nursing Council (Revised Guidelines for starting Ph.D. in Nursing Program in the Universities approved by the Council), Regulations, 2024)

FROM THE ACADEMIC YEAR 2025 - 26 ONWARDS

REGULATIONS FOR THE DEGREE OF DOCTOR OF PHILOSOPHY (Ph.D.) IN NURSING

In exercise of the powers conferred by Clause 19 of the Memorandum of Association & Rules and Clause 2(cc) of Bye-Laws of Sri Ramachandra Institute of Higher Education and Research (Deemed to be University), Porur, Chennai-600116, the Academic Council of the Deemed University hereby makes the following Regulations, in conformity with **Indian Nursing Council (Revised Guidelines for starting Ph.D. in Nursing Program in the Universities approved by the Council), Regulations, 2024 notified in Gazette of India dated 5th June 2025** and INC guidelines communicated from time to time:-

1. SHORT TITLE AND COMMENCEMENT

These Regulations may be called the REGULATIONS FOR THE DEGREE OF DOCTOR OF PHILOSOPHY (Ph.D.) IN NURSING (as per Indian Nursing Council (Revised Guidelines for starting Ph.D. in Nursing Program in the Universities approved by the Council), Regulations, 2024)

These revised regulations shall come into force with effect from the academic year 202526 and are subject to such modifications as may be approved by the Academic Council from time to time.

2. BACKGROUND

National Health Policy 2017 (NHP 2017) recognizes the key role health research plays in the development of nation's health. The policy aims to strengthen governance systems so that nurses can assume leadership position, improve regulation of practice and strengthen the quality of nursing education. Doctoral education in nursing will prepare more qualified nurses who can meet the country's health and nursing care demand. Many universities in India are recognizing this need and plan to start Ph.D. Program in Nursing. This necessitates uniform and standard curriculum and guidelines to run the program effectively and achieve the intended outcomes. The Council has revised the Ph.D. curriculum and guidelines that will guide all universities who intend to start and promote doctoral education in nursing in their respective Universities.

3. PHILOSOPHY

NHP 2017 emphasizes the need to prepare nurses to function in specialty and super-specialty areas of tertiary care institutions with the proposed expansion of tertiary care services alongside expansion of medical colleges and starting new AIIMS nationwide. There is an acute shortage of nursing faculty in undergraduate and postgraduate nursing programs in India. Doctoral education is essential to prepare nurse scholars to improve the quality of nursing education and practice in India.

Doctoral education builds upon and extends competence acquired at the undergraduate and postgraduate levels, emphasizes theory development and research skills. The function of nurse scholars is to assume leadership roles in complex healthcare and education systems, develop a theoretical and empirical base for nursing practice in both current and emerging health care systems, conduct nursing research and participate in developing healthcare policies. The entire thrust is on professional preparation in nursing that could lead to evidence based practice for clinical effectiveness.

4. PURPOSE

Doctoral education is to prepare nurse scholars who will contribute both to the development and application of knowledge in nursing for enhancing quality of nursing education, research, practice and dissemination of nursing knowledge.

5. OBJECTIVES

The doctoral prepared nurse will be able to:

- Conduct research relevant to nursing.
- Develop nursing theories and nursing science.
- Synthesize knowledge from nursing and other allied sciences to develop and test theory that affects health status.
- Demonstrate the leadership skills in nursing practice, education and research.
- Disseminate the results of theory development and research.

6. ELIGIBILITY CRITERIA FOR UNIVERSITIES TO START Ph.D. NURSING PROGRAM

- The University shall have M.Sc. Nursing program found suitable by the Council under Section 13 & 14 of the Act.
- The University shall have regular faculty with recognized Ph.D. qualification under Section 10 of the Act with relevant experience along with their research publications as placed below under at S.No. 7.

State Government/Central Universities

Every College of Nursing having M.Sc. Nursing program found suitable by the Council under Section 13 & 14 of the Act and approved by the University to start Ph.D. in Nursing shall have minimum of two guides (regular faculty) having recognized Ph.D. qualification under Section 10 of the Act.

7. RESEARCH GUIDE

- Guides can select **two scholars only every year** but not more than 6 scholars at any given period of time.
- Scholars can have co-guide from nursing or other disciplines if necessary.
- The Ph.D. doctoral holders who are within health care disciplines can be appointed as co-guides.
- In Deemed/Private University, the guide should be from the same University.
- In State University, the guide can be from any college within the same University.

8. ELIGIBILITY CRITERIA FOR RESEARCH GUIDE

- Ph.D. degree in nursing with 5 years postgraduate teaching experience with minimum **5 scientific publications** in National/International Journals.
- Maximum age to be a guide shall be 65 years.
- Guide cannot have more than 6 candidates (including being co-guide) at any given point of time.
- Scholars can have co-guide from nursing or other discipline, if necessary.
- The Ph.D. doctorate holders who are not formal teachers can be appointed as co-guides.

9. RESEARCH SCHOLARS

- Full time research scholars are those who register for Ph.D. on full time basis and are not employed anywhere.
- Part time research scholars are those who are presently employed in any College/School/Hospital/ Institute/Nursing department within the University jurisdiction.
- Scholars can select the guide from the list of guides placed in the University website.

10. (i) ELIGIBILITY CRITERIA FOR RESEARCH SCHOLARS

Applications are invited from eligible scholars who have obtained —

- a) M.Phil. in Nursing or M.Sc. Nursing or a Post Graduate degree in Nursing recognized by Council with **3 years teaching or Clinical experience** after M.Sc. Nursing for enrolment for Ph.D. in Nursing (part- time) under Faculty of Nursing in the respective University.
- b) The scholars should have passed M.Sc. Nursing with a minimum of 60% marks.
- c) Working in Teaching Institution/Hospital/Community Centre/Nursing Department within the University jurisdiction.

(ii) Criteria for Selection

- a) Selection for the Ph.D. Nursing Program will be based on merit either by entrance or by M.Sc. Nursing (minimum 60% marks).
- b) If the University opts to conduct entrance examination, then selection for the Ph.D. Nursing Program of the candidate will be based on —
 1. Entrance test marks obtained out of 90 marks (Minimum weightage pass marks for entrance will be 60% of 90 i.e. 54).
 2. 5 marks for candidates possessing M.Phil. in Nursing.
 3. 5 marks weightage for publications.

11. RESERVATION IN ADMISSION: As per University Grants Commission (UGC) guidelines.

12. DURATION

Full time: Three years, maximum of 5 years - working nurse cannot be considered under full time category.

Part time: Five years, maximum of 7 years.

A candidate can register for Ph.D. course on part time basis.

- a) A candidate should complete research work and submit the thesis to the University within five years from the date of provisional registration.
- b) Maximum period for submission of thesis will be Seven years from the date of provisional registration subject to the approval from the Board of Research Studies/Doctoral Studies on the recommendations of the guide. There will be no provision for further extension of the period.
Under extraordinary circumstances, affecting a student warranting extension of period for submission of thesis, the student should submit an application to the Registrar (Evaluation) through the guide who will refer the same to the Board of Research Studies/Doctoral Studies for its opinion, which will be submitted to the High Power Committee. The decision of the Vice Chancellor in the matter shall be final.

13. CALENDAR OF EVENTS

- Provisional Registration - 1st July every year.
- Submission of half yearly progress report - 15th July every year/15th January every year.
- No two-half yearly progress report should be submitted simultaneously.
- Conducting the Pre-Ph.D. examination after the approval of 1st and 2nd half yearly progress reports and completion of one year from the date of provisional registration.
- Exact date of the examination will be notified by the University.
- Confirmation of registration after successfully completing the Pre-Ph.D. examination.
- Submission of ethical clearance certificate within one year after provisional registration.
- Ethical clearance/permission from the Institution/Concerned Authorities should be obtained from where data is being collected.
- Submission of final synopsis of research work leading to Ph.D. degree after approval of all half yearly reports and on permission to submit the synopsis of Ph.D. registration committee.
- Submission of Ph.D. thesis along with the application within 6 months after the approval of the final synopsis and permission to be sought by Ph.D. registration committee to submit the thesis.
- Final Viva-Voce examination after the acceptance and approval of Ph.D. thesis by the examiners (date to be notified by the University).

14. PROCEDURE FOR REGISTRATION

1. Selected candidates applying for registration shall submit the duly filled registration form through Head of the Research/Nursing Department or College of Nursing within the stipulated time along with the prescribed fee. The candidate shall furnish the information detailed below:-

- a) Qualification and details of previous study and research, if any, and full particulars of the publications to his/her credit in accredited journals. (attested copies to be furnished)
 - b) Name and address of the recognized Guide/Co-Guide under whom the candidate proposes to carry out research.
 - c) Name of the department and institution where the candidate proposes to work and to conduct research.
 - d) Title and synopsis of the proposed research work.
2. Candidates in service shall forward application along with the consent of the guide with name, signature & seal and a No Objection Certificate from the Head of the Department and Head of the Institution where the candidate is working (place of work) while submitting the application along with the documents mentioned under schedule for the candidates.
 3. All applications received by the University before the stipulated time and date shall be placed before the Board of Research/Doctoral Studies. The Board/Committee shall examine the applications and after screening process shall recommend to the University for Provisional Registration within three months from the last date notified for the receipt of applications.
 4. Provisional registration shall be effective from the date mentioned as the last date for payment of prescribed fees in the concerned specialty for the selected candidate.
 5. No candidate shall, without previous permission of the respective Board/Committee join any other course of study or appear for any other examination conducted by the University or by any other University during the period of registration.

15. BOARD OF RESEARCH/DOCTORAL STUDIES

The Board/Committee will consist of —

- a) Dean of the Faculty of Nursing
- b) Selected Ph.D. qualified Committee Members
- c) One subject expert

16. PROGRESS REPORT

After provisional registration, every candidate shall submit half yearly progress report regularly through the guide.

Every such half yearly report shall be submitted for the period from 1st January to the end of June and from 1st July to the end of December. However, the first report for the fraction of six months period shall be submitted ending either in June or December.

The half yearly progress report shall cover the following aspects —

- a) Progress in the review of literature,
- b) New data acquired or theoretical background/techniques developed,
- c) Progress/standardization in research methodology,
- d) Discussion of the work done.

If the candidate fails to submit two consecutive half-yearly progress reports in time, his/her provisional registration shall stand cancelled.

If two consecutive half-yearly progress reports are not satisfactory, the Board/respective Committee shall recommend to the University for cancellation of the registration.

17. PRE-Ph.D. EXAMINATION

The provisional registration of the candidate shall be confirmed only after he/she has passed the Pre-Ph.D. examination which shall be conducted after the completion of one year from the date of provisional registration of the candidate.

The scheme of Pre-Ph.D. examination to be conducted by the University shall be as follows —

S.No.	Subject	Duration	Marks
Paper I	Research Methodology & Applied Statistics	3 hours	100
Paper II	Nursing Science & Theory Development	3 hours	100
	Seminar/Term paper in the area of research (Internal assessment)	–	100
	Viva Voce (Proposal defense)*	–	100

* > = 60% of marks will be considered as pass.

Note: 70% attendance is compulsory for contact hours. If the student does not have 70%, he/she will not be allowed to appear for the Pre-Ph.D. examination, however they have to make up for the same next academic year.

The syllabi for both the papers shall be as prescribed by the Indian Nursing Council.

Scope for changing the research topic: The research topic can be changed within one year.

18. PROCEDURE FOR PRE-Ph.D. EXAMINATION

- a) The Board of Research/Doctoral Studies shall prepare a panel of both external & internal examiners and will constitute the Board of Examiners for the conduct of the Pre-Ph.D. examination.
- b) The Board of Examiners for the Pre-Ph.D. examination consists of the following —
 1. There shall be double valuation of the answer scripts of Paper I and Paper II by the same examiners who have set the question papers. The marks list shall be sent by the examiners directly to Registrar (Evaluation) of the University concerned.
 2. If the difference of the marks in valuation between the two examiners exceeds 15% of the concerned answer scripts, the same will be valued by the third examiner. The marks awarded by the third examiner shall be sent to Registrar (Evaluation) of the University concerned for the announcement of results.
 3. The Viva-Voce (proposal defense) examination shall be conducted in presence of the panel consisting of —
 - Two examiners (Subject Experts) appointed by the University
 - Guide/Co-Guide
 - i) The candidate shall be declared as successful in the examination if he/she secured not less than 60% of marks in each paper.
 - ii) In case the candidate is not successful in the Pre-Ph.D. examination in the first attempt he/she may be given two more chances to appear for entire examination after a period of six months. Further, if he/she is unable to attend or appear in the supplementary examination, then he/she has to appear in the next regular examination, after that he/she will not be permitted to sit in the examination.
 - iii) If the candidate is not successful in the Pre-Ph.D. examination, even in the second appearance, his/her provisional registration shall stand cancelled.

19. CHANGE OF GUIDE

Change of guide may be allowed within a period of less than two years. In extraordinary circumstances warranting change of guide, the guide and/or the student should place the facts before the Board of Research/ Doctoral Studies for its opinion. The decision and the recommendations of the Board of Research Studies/ Committee shall be final.

20. SUBMISSION OF THESIS

- Any candidate who has completed the minimum period of three years doing prescribed research from the date of his/her provisional registration and not less than three months before the expiry of the maximum period prescribed for submission of thesis may submit an application along with five copies of synopsis of the thesis through the Guide, the Head of the institution to the respective Board of Research Studies/Committee for permission to submit the thesis as per the University procedures.

- After the approval, four copies of the approved final synopsis (hard copy/CD) shall be sent to Board of Research/Doctoral Studies/Evaluation Committee who shall proceed with the Constitution of Board of Examiners for the adjudication of the Ph.D. thesis and keep it ready prior to the submission of the thesis.
- Every candidate shall submit with his/her application, five copies of the thesis embodying the results of the research carried out by him/her within six months after the submission of the final synopsis as per the University procedures.
- A candidate may also submit along with his/her thesis papers published by him/her embodying the results of investigation for the Ph.D. degree and also any other contribution/s to the knowledge of his/her subject or any cognate branch of the subject.
- Every candidate shall submit with his/her thesis, a certificate from the guide/s under whom he/she worked, that the thesis, submitted is a record of research work done by the candidate during the period of study under him/her that it has not previously formed the basis for the award of any degree or diploma, associateship/fellowship or any other similar award.
- If, however, the thesis submitted has formed in part the basis for the award of previous research degree the candidate shall clearly set forth in a preface or written statement the portion(s) which have formed the basis for the award of the previous degree.
- Along with the thesis the candidate will also produce a "No Due Certificate" from the Head of the Department and Head of the Institution and from the University Librarian and Finance Section if applicable.

21. Ph.D. EXAMINATION

For the adjudication of Ph.D.Thesis there shall be a Board of Examiners of two external members to be chosen by the University, from the panel of examiners recommended by the Board of Research/Doctoral Studies/Ph.D. Evaluation Committee. The guide shall be the Chairperson of the Board of Examiners. However, under extraordinary circumstances, Board of Research/Doctoral Studies/Evaluation Committee may appoint a Chairperson other than the Guide from the panel of Board of Examiners. The external examiners must be from outside the University who are subject experts who fulfill the criteria of a guide.

Each external examiner appointed to adjudicate the thesis shall send the report to the Chairperson within two months from the date of receipt of the thesis. Such reports should include -

- a) A critical account of the work of the candidate as embodied in the thesis and the evaluation of the work in term of its contribution to the advancement of knowledge.
- b) Details of any questions to be asked or points to be clarified at the Viva-Voce examination.
- c) Definite recommendations as to whether the Ph.D. degree should be awarded or not.

The Chairperson shall forward the report of the examiners along with the consolidated recommendations of the Board of Examiners to the Ph.D. Evaluation Committee/Board.

If both the examiners give definite recommendations against the award of the degree, the thesis shall be rejected. If one of the examiners gives a definite recommendation against the award of the degree the thesis may be referred to third external examiner, from out of the panel recommended by the Board of Research/Doctoral Studies/Ph.D. Evaluation Committee. If the report of the third examiner is favorable, then the candidate shall be eligible to appear for the Viva-Voce examination and if it is not favorable, then the thesis shall be rejected.

If one of the examiners makes qualified recommendations with valid reasons (for e.g. to resubmit the thesis after suitable modifications), the Chairperson shall communicate the same to the Registrar Ph.D. Nursing Evaluation, who will in turn intimate the candidate for resubmitting the thesis with the suitable modifications within six months from the date of communication. The resubmitted thesis with suitable modifications will be sent to the same examiner and the reports received thereon by the Chairperson shall be communicated to the Registrar Evaluation/Ph.D. Evaluation Committee.

No candidate shall, however, be permitted to submit the thesis more than two times.

The thesis may be published in any form after obtaining necessary permission from the University.

22. VIVA-VOCE EXAMINATION

Viva-Voce examination shall be conducted after the receipt of the satisfactory report, on the thesis from all the examiners. The Viva-Voce examination shall be conducted by a Board constituted as follows –

- i) Guide/Chairperson
- ii) Guide/Co-Guide (in case Guide is not the Chairperson)
- iii) At least one of the external examiners shall be present at the Viva-Voce examination. However, under extraordinary circumstances, where any external examiner cannot be present at the Viva-Voce examination, the Vice-Chancellor may appoint any external substitute examiner from the panel constituted by the Board of Research/Doctoral Studies/Ph.D. Evaluation Committee.

Teachers and research scholars of the concerned departments/institutions may be invited as observers only to attend the Viva-Voce examination.

The Viva-Voce examination is primarily designed to test the understanding of the candidate of the subject matter of the thesis including methodology employed and his/her competence in the general field of study. Since the points raised by the examiners of thesis are to be clarified during the Viva-Voce examination, the report of the examiners who adjudicated the thesis will be made available to the Board for Viva-Voce examination. The candidate shall produce all the relevant documents, materials, and preparations etc., concerned with the research project during Viva- Voce examination.

Members of the Board for the Viva-Voce examination shall report specifically on whether the candidate's performance on the examination is satisfactory and therefore be considered as accepted or nor accepted.

A candidate who is not successful at the Viva-Voce examination may be permitted to undergo the Viva-Voce examination for a second time after a period of three months. No candidate shall be permitted to take the Viva-Voce examination on more than two occasions.

23. AWARD OF Ph.D. DEGREE

The degree will be awarded by the University, after the candidate successfully completes Viva-Voce examination. The Chairperson shall consolidate the recommendations for the award of Ph.D. degree based on the following –

- i) The report of examiners who adjudicated the thesis,
- ii) Evaluation of the candidate's performance in the Viva-Voce examination.

The Chairperson shall forward the consolidated and individual reports with recommendation to the Registrar (Ph.D. Evaluation) of the University. Based on these reports, the University shall award the Ph.D. degree after the recommendations are approved by the Vice-Chancellor.

23. List of Annexures shall be placed in the University Prospectus of Ph.D. Nursing.

1. Annexure I - Fee Structure
2. Annexure II - Application Form after selection of the candidates for Ph.D. Nursing
3. Annexure III - List of documents to be enclosed
4. Annexure IV - List of recognized guides
5. Annexure V - Proforma for Registration of Topic
6. Annexure VI - Guidelines for preparing thesis protocols/proposal
7. Annexure VII - Style of writing bibliography

I. RESEARCH METHODOLOGY AND APPLIED STATISTICS

Contact hours = 60 hours; Self study = 30 hours; Total hours of instruction: 90 hours (6 credits) One credit = 15 contact hours

Unit-I Introduction (3 hours)

Methods of acquiring knowledge, problem solving and scientific method, characteristics of high quality research, importance of nursing research, priorities/areas of nursing research - priority setting process, current and future directions for nursing research, research innovations and trends - latest types of research.

Unit-II - Research process overview (5 hours)

Phases of quantitative and qualitative research - review, research paradigms, research question - policy relevant questions/problem, statement and key concepts used in research and hypothesis - types and formulation.

Unit-III - Review of literature (5 hours)

Sources, steps, literature retrieval from various databases, and preparation of literature review, scoping review and systematic reviews.

Unit-IV - Designing and conducting research: (25 hours)

Research Approaches: Quantitative and qualitative

Quantitative Research: Non-experimental and experimental

- Non-experimental/observational studies: Survey approach, longitudinal, cross-sectional, cohort, case control studies
- Experimental designs: Purposes, characteristics, types of design, pre-experimental and quasi and true experimental design: clinical trials, and steps of experimental research
- Sampling: Sample, population, sampling methods, sampling criteria, determination of sample size
- Data collection: Methods and tools/instruments
- Selection and construction of scales/tools, testing validity and reliability
- Data analysis, management and interpretation
- Rigor and validity in quantitative research.

Qualitative Research

- Ethnography, phenomenology, grounded theory
- Sampling
- Data collection: Methods, tools used for qualitative research, observation, focused group discussion, measurement and record analysis and field trips
- Data analysis, interpretation and data management
- Trustworthiness and rigor in qualitative research

Other types: (4 hours)

- Mixed methods research
- Translational research
- Implementation research
- Health systems research: Policy relevant research
- Epidemiological, evaluation research, and historical research

Unit-V - Quantitative analysis: Statistical (10 hours)

- Descriptive, inferential and advance statistics
- Parametric and non-parametric methods
- Multivariate analysis

Unit-VI - Ethical considerations in nursing research (2 hours)

- General considerations
- Ethical considerations specific to approaches, design and data collection procedures

- Ethics Committee: Composition, role and importance - Guidelines for ethical clearness
- Ethical issues: Relation to scientific and professional community (Plagiarism)

Unit-VII - Communicating research findings (4 hours)

- Research critique
- Project proposal for funding
- Research utilization

Unit-VIII - Scientific writing (2 hours)

- Research grant writing and bidding
- Intellectual property rights
- Patency rights
- Copyrights

II. NURSING SCIENCE AND THEORY DEVELOPMENT INCLUDING NURSING LEADERSHIP

Contact hours = 75 hours; Self study = 45 hours; Total hours of instruction: 120 hours (8 credits)

One credit = 15 contact hours

1. Nursing leadership in health care delivery system
Contact hours: 20 hours; Self study: 10 hours (2 credits)
2. Philosophy of nursing science and theoretical perspectives
Contact hours: 15 hours ; Self study: 15 hours (2 credits)
3. Nursing theories and theory development
Contact hours: 40 hours ; Self study: 20 hours (4 credits)

I. NURSING LEADERSHIP IN HEALTH CARE DELIVERY SYSTEM (20 hours)

Course overview:

This course is designed to prepare the doctoral student to identify and utilize the nursing science and leadership roles as a basis for analyzing, developing and implementing national health policy and population policy and development of nursing profession.

Objectives: Upon completion of this course the student will be able to —

1. analyze the health problems and societal forces, health economics and politics in relation to corresponding national health policy and population policy
2. relate the impact of health policy and population policy to structure, content, distribution and financing of health services in general and nursing services in particular
3. analyse the leadership theories
4. identify the leadership roles necessary for the nursing leaders for developing nursing profession and people's health

Syllabus:

I. Current health issues and policies (8 hours)

1. Analysis of current health problems - national & global
2. Health care delivery system in India
3. National health policy, population policy and alternative systems of medicine, National Educational Policy (NEP)
4. Health policy issues relevant to nursing practice - Development of nursing services in health policy
5. The functions and roles of law in health care delivery - Existing legislations related to nursing. Laws for new and emerging roles (e.g.) Nurse practitioner, private practice (nursing homes)
6. Social system and health policy
7. Politics and health policy - lobbying for development of nursing profession
8. Health economics and health policy (economics of health care and nursing)

9. Health insurance
10. Quality improvement including accreditation

II. Nursing leadership (8 hours)

1. Leadership theories including transformational versus transactional leadership
2. Nursing leadership and decision making
3. Nursing leadership and change process
4. Human resource planning and management by nurse leaders
5. Profession building in health care system - advocacy, lobbying
6. Nursing Ethics
 - i) Code of ethics, professional conduct for nurses in India
 - ii) Nursing standards, nursing practice, standards and quality assurance
7. Human relations
 - i) Valuing human being
8. Communication skills

III. Nursing informatics (4 hours)

1. Nursing management information system, Networking institutions through literature search.
2. Nursing Universities, Internet, Literature search
3. Knowledge about basic computers
4. Review

OR

1. Overview of computers and nursing
2. Computer systems: Data processing, the internet, a nursing resource
3. Nursing informatics and health care policy, privacy, confidentiality and security
4. Nursing informatics theory, clinical information systems
5. Applications: Practice applications, administrative application (information technology for nursing managers), educational applications and research applications
6. Consumer use of informatics
7. The future of informatics

II. PHILOSOPHY OF NURSING SCIENCE AND THEORETICAL PERSPECTIVES (15 hours)

Course overview: This is an introductory course. It begins the students' integrative analysis of the conceptual and empirical base of the domain of nursing. This course enables the student to trace the historical development and current status of nursing science in the context of the philosophy and history of science . (Study of nursing as a scientific discipline)

Objectives: Upon completion of this course, the student will be able to –

1. analyse the historical roots and current status of contemporary nursing science
2. explicate the paradigms of inquiry which influence the investigation of nursing phenomena
3. explore the impact of scientific issues on the development of nursing science

Syllabus

1. Introduction to the course, study of philosophy, history of philosophy
2. History and philosophy of nursing science
3. Nursing as a science and a discipline (evolution and development)
4. Nursing knowledge and development
 - Historical roots
 - Domains of nursing
 - Paradigms in nursing
 - Knowledge development
5. Paradigms that influence approach to nursing science development
6. Epistemological and ontological assumptions of diverse approaches to knowledge generation in nursing

III. NURSING THEORIES AND THEORY DEVELOPMENT (40 hours)

Course overview: This is designed to facilitate the refinement of the critical skills necessary for analyzing and evaluating theoretical formulations, synthesizing theoretical components into conceptual models and developing testable hypotheses. The interrelationships among theory and practice and research in nursing will be examined.

Objectives: Upon completion of this course the student will be able to —

1. describe strategies for concept and theory development
2. get overview of nursing theories
3. evaluate theories used in nursing practices
4. demonstrate skill in developing and testing conceptual models that will impact nursing science
5. examine interrelationship among science, theory, practice and research in nursing

Syllabus

1. Epistemology (5 hours)
 - Concepts, statements and theories
 - Strategies for theory development
 - Evaluation of theories
 - Metatheory
2. Overview of theory in nursing (10 hours)
 - Overview of theory
 - Importance of theory in nursing
 - Historical overview
 - Classification of theories in nursing
 - Issues in theory development in nursing
 - Nursing Theory: an examination of the concept development of nursing theory
3. Overview of nursing theories (15 hours) The theorists and the theories
 - On nursing clients
 - On human being - Environment interactions
 - On interactions
 - On nursing therapeutics
 - Other theories: Practice level/Prescriptive/situation specific theories
4. Analysis of nursing theories & evaluation of nursing theories
5. Nursing theory and practice
6. Nursing theory and research
7. Inter relationships between science, theory, practice and research in nursing. (4,5,6,7=10 hours)
