



SRI RAMACHANDRA

INSTITUTE OF HIGHER EDUCATION AND RESEARCH

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

Website: www.sriramachandra.edu.in

PROSPECTUS FOR ADMISSION TO Ph.D. PROGRAM UNDER FOREIGN NATIONALS / NRI CATEGORY (October, 2021 session)

International Candidate (Foreign Nationals & NRIs) are eligible to apply for Ph.D. Program (Full-Time or Part-Time) provided they satisfy equivalent eligibility requirements as prescribed in Sri Ramachandra Institute of Higher Education and Research (Deemed to be University), Ph.D. Regulations (2020). www.sriramachandra.edu.in

Any candidate desiring to enroll for Ph.D. Program in a Full time or Part time basis should contact the Office of the Asst. Director – International Relations through email (admissions.international@sriramachandra.edu.in) / letter and will submit a brief CV and an outline of topic of interest. An application should be submitted through online application system (<https://www.sriramachandra.edu.in/university/nri-admission-fees.php?pos=6>). This application, CV and an outline of topic of interest will be forwarded to the concerned Principal / Dean for identification of the potential supervisor and to determine if facilities are available for the intended area of research (please refer Regulation 5.11.1 to 5.11.9)

1. Admission through Online Entrance Examination (Written Test and Online Interview):-

- (a) **Full-Time:** Candidates applying for Founder-Chancellor Shri.N.P.V.Ramasamy Udayar Research Stipendiary Fellowship for Ph.D.
- (b) **Part-Time:** External candidates.

2. Admission through Online Counselling:-

Full-Time: Candidates with UGC/ CSIR/ ICMR/ DBT/ DST NET-JRF/ AICTE-GATE/AYUSH/INSPIRE Fellowship or JRF/SRF fellows in funded research projects of this Deemed University will be called directly for counseling and admission. They should submit application and meet eligibility criteria as outlined in the Prospectus uploaded in the Deemed University website.



ADMISSION TO Ph.D. PROGRAM

(October, 2021 session)

Applications are invited for admission to PhD program under the Faculty of Medicine / Dentistry / Pharmacy / Nursing / Physiotherapy / Biomedical Sciences / Management / Allied Health Sciences / Public Health / Sports & Exercise Sciences / Clinical Research / Engineering And Technology.

1. FULL-TIME:-

(a) Candidates applying for Ph.D. program under Deemed University **Founder-Chancellor Shri. N.P.V.Ramasamy Udayar Research Fellowship** with stipend:-

These fellowships are designed to motivate talented and meritorious medical and allied sciences postgraduates to take up Ph.D. Research on a full-time basis at the constituent colleges/faculties of Sri Ramachandra Institute of Higher Education and Research (Deemed to be University).

The Deemed University offers Fellowships, each carrying a stipend of Rs.12,000/- p.m. with a contingency grant of Rs.25,000/- p.a. for a period of 3 years for candidates undertaking research on full time basis for the Ph.D. program in the several disciplines including Medicine and Surgery — all branches and Basic Medical Sciences / Dentistry / Pharmacy / Nursing / Human Genetics / Biomedical Sciences / Biotechnology / Bioinformatics / Physiotherapy / Management / Allied Health Sciences / Audiology and Speech-Language Pathology / Clinical Nutrition / Clinical Psychology / Optometry / Trauma Care Management / Public Health / Sports & Exercise Sciences / Clinical Research / Engineering & Technology.

The fellowships will be governed by the terms and conditions prescribed and are tenable only at Sri Ramachandra Institute of Higher Education and Research (Deemed University).

The fellowships will be advertised in newspapers and also on the Deemed University website along with the Ph.D. admission notification. Candidates shall apply for the fellowship in the prescribed application. The applicants will be required to appear for Online Entrance Examination (written test and interview). A merit list of candidates qualifying will be prepared. Depending on the number of candidates, a shortlist of candidates will be called for online counselling. Selection shall be based solely on merit and on All-India basis. The marks/grades scored at the postgraduate examination will also be taken into account for the selection process.

A Selection Committee with experts as may be co-opted, will be constituted for the selection of students for the award of the fellowships.

(b) Candidates already holding Research Fellowships: Candidates with UGC / CSIR / ICMR / DBT / DST NET-JRF / AICTE-GATE / AYUSH / INSPIRE Fellowship or having qualified other UGC recognized

national eligibility test with a valid fellowship at the time of online entrance exam or who work in funded research projects as JRF/SRF in the Deemed University are **exempted** from appearing for Online Entrance Examination and Online interview and they will be called directly for online counseling and admission. However, they should submit an application and prescribed fee on or before date as indicated in the notification. In all cases, the decision of the Vice-Chancellor shall be final.

1.1. ONLINE ENTRANCE EXAMINATION (ONLY FOR FULL-TIME CANDIDATES)

Candidates wishing to apply for admission to Ph.D. program under Full Time (seeking Founder-Chancellor Shri N.P.V. Ramasamy Udayar Fellowships) and Part Time (internal and external) categories will have to qualify through online entrance examination.

Performance of the candidate will be calculated on a written test (70% weightage) and interview (30% weightage). Interview will be conducted online for each candidate after the entrance exam, the exact date and time will be intimated later.

The qualifying marks for provisional admission to Ph.D. program are 50% in the online 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) / Differently-abled category in the entrance examination.

1.2. SYLLABUS AND PATTERN OF ONLINE ENTRANCE EXAMINATION (ONLY FOR FULL-TIME CANDIDATES): (for all faculties except Sri Ramachandra Faculty of Engineering and Technology)

- (a) Syllabus for Online Entrance Examination is available in the Ph.D. Regulation (2020) website <https://www.sriramachandra.edu.in/university/pdf/admission/phd-regulations-2020>
- (b) The duration of the examination will be 2 (two) hours.
- (c) The Entrance Examination will be conducted in ENGLISH only. The question booklet will consist of 120 multiple choice questions (single best response).
- (d) The written test will have two sections, Section A & B.
 - Section-A Research Methodology: Common to all disciplines will have 60 questions (answer all questions)
 - Section-B Discipline Specific: Candidates will attempt questions from one of the following:-
Medicine / Dentistry / Pharmacy / Nursing / Physiotherapy / Biomedical Sciences / Management / Allied Health Sciences / Public Health / Sports & Exercise Sciences / Clinical Research.
The candidates will indicate the selected faculty/discipline in the application form. The Section-B will have 75 questions and the candidate may attempt any 60 questions. The first 60 questions attempted will be considered for evaluation.
- (e) All questions carry equal marks. There will be no negative mark for incorrect answers.
- (f) Results will be published in the Deemed University website: www.sriramachandra.edu.in

2. PART-TIME (External):-

Candidates who wish to register for Ph.D. under part time category will complete a written entrance examination and an interview.

Once a potential research supervisor has been identified, the candidate will be asked to submit a detailed proposal / review of research topic within two weeks. This will serve as the written examination and will be graded for 70% of the total marks. The research proposal will be evaluated and an oral examination will be scheduled either in person or using an appropriate technology tool. The Dean (Research) will constitute the Admission Committee which will include the Dean (Research), Principal / Dean of the college / faculty and proposed supervisor. The oral examination will have a weightage of 30% of the total marks.

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) / Differently-abled category in the entrance examination.

3. Ph.D. ADMISSION UNDER SRI RAMACHANDRA FACULTY OF ENGINEERING AND TECHNOLOGY:-

The admission process will involve the following steps for both Full-Time and Part-Time Candidates

- Interested candidates will submit a CV along with a brief outline of the topic of interest to the Provost, Sri Ramachandra Faculty of Engineering and Technology.
- If a potential supervisor and the needed facilities are available to carry out the research, the Provost, Sri Ramachandra Faculty of Engineering and Technology. will ask the candidate to submit the application for Ph.D. Entrance Examinations. If the faculty or the facilities are not available, the candidate will be advised to seek other avenues for research.
- A candidate selected on the basis of the results of the entrance examination and the academic qualifications will be directed to register as an internal Full-Time, internal Part-Time or external Part-Time Ph.D. student.
- The entrance examination will be in the form of a written and an oral examination.
- The written examination may involve writing an essay or a research paper detailing the student's area of interest. It may be a review of a research topic or a proposal dealing with a research problem. The student may take up to a week to complete the written examination. If justified for the nature of the problem involved, Sri Ramachandra Faculty of Engineering and Technology may provide additional time to complete the written examination. Oral presentation of the essay / paper will be to a team of examiners consisting of the potential research supervisor, a second member of Sri Ramachandra Faculty of Engineering and Technology and an industry or an academic expert appointed by the Vice Chancellor / Dean (Research) / Provost of Sri Ramachandra Faculty of Engineering and Technology. The written portion of the examination will carry 70% of the marks while 30% of the marks will be assigned to the oral examination. Multiple choice examinations will not be part of the written examinations in Sri Ramachandra Faculty of Engineering and Technology.

Those candidates who fulfill all criteria for provisional registration as per regulations (including those

candidates who hold approved scholarships / fellowships) will be called for counselling. Counselling will be held at the Deemed University campus and those eligible will be notified to attend the counselling on the specified date and time. During counselling, Founder-Chancellor Fellowships will be offered to eligible full time candidates. Guidance to identify Research Supervisors will also be provided to the candidates. After counselling, all eligible candidates will be issued 'application for Provisional Registration' for Ph.D. Program.

SRI RAMACHANDRA INSTITUTE OF HIGHER EDUCATION & RESEARCH (SRIHER) (DEEMED TO BE UNIVERSITY)

Sri Ramachandra Medical College and Research Institute was established by Sri Ramachandra Educational and Health Trust in the year 1985 as a private non-profit, self-financing Institution dedicated to serve the society as a Centre of Excellence with emphasis on Medical Education, Research and Healthcare. In view of its academic excellence, the Government of India declared Sri Ramachandra Medical College & Research Institute as a Deemed University in September, 1994 under Section 3 of the University Grants Commission Act, 1956. The Trust achieved the task of establishing this institution as a "Centre of Excellence " under the leadership of Late Shri.N.P.V.Ramasamy Udayar who was the Founder & Managing Trustee of the Trust and also the first Chancellor of the Deemed University. Shri. V.R.Venkataachalam is currently the Chancellor of the Deemed University and also the Managing Trustee of the Trust. Shri.R.V.Sengutuvan is the Pro-Chancellor of the Deemed University. From 2018 onwards, the Deemed to be University is renamed as Sri Ramachandra Institute of Higher Education & Research (Deemed to be University).

ACCREDITATION:

- ❑ Graded as a Category I University by the University Grants Commission (UGC).
- ❑ Sri Ramachandra Deemed University has been accredited (cycle-3) by National Assessment and Accreditation Council (NAAC) with CGPA of 3.53 on four point scale at 'A' Grade.
- ❑ In the National Institutional Ranking Framework (NIRF-2020), SRIHER has been placed at 28th rank among the Universities in the country.
- ❑ In the National Institutional Ranking Framework (NIRF–2020), SRMC & RI has been placed at 13th rank among the Medical Colleges in the country.
- ❑ In the National Institutional Ranking Framework (NIRF–2020), College of Pharmacy has been placed at 26th rank among the Pharmacy Colleges in the country.
- ❑ In the National Institutional Ranking Framework (NIRF–2020), College of Dental Sciences has been placed at 7th rank among the Dental Colleges in the country.
- ❑ The Clinical Laboratory is accredited seven times by National Accreditation Board for Laboratories (NABL).
- ❑ The ISO certified Central Research Facility with Sophisticated Instrumentation Laboratory, Clinical Trial Division and Sri Ramachandra Innovation Incubation Centre.
- ❑ The Centre for Toxicology & Developmental Research (CEFTE) is issued a Good Laboratory Practices (GLP) compliance certificate by NGCMA, DST, Govt. of India. Sri Ramachandra is the first Medical University in the country to get the GLP certification from the Department of Science and Technology (DST), Govt. of India.
- ❑ The Faculty of Public Health has the distinction of being recognized by the ICMR as a "SRUICMR Centre for Advanced Research on Air Quality, Climate and Health" and also as a WHO collaborating Centre for "Occupational & Environmental Health"
- ❑ UNESCO Chair in Bioethics has been established at the Deemed University.
- ❑ Department of Human Genetics accredited by AERB as Biodosimetry laboratory

Academic Entities of the University

The following are the academic entities of SRIHER:

1. **Sri Ramachandra Medical College and Research Institute**
2. **Sri Ramachandra Faculty of Dental Sciences**
3. **Sri Ramachandra Faculty of Pharmacy**
4. **Sri Ramachandra Faculty of Nursing**
5. **Sri Ramachandra Faculty of Physiotherapy**
6. **Sri Ramachandra Faculty of Allied Health Sciences**
7. **Sri Ramachandra Faculty of Management Sciences**
8. **Sri Ramachandra Faculty of Biomedical Sciences & Technology**
9. **Sri Ramachandra Faculty of Public Health**
10. **Sri Ramachandra Faculty of Sports & Exercise Sciences**
11. **Sri Ramachandra Faculty of Clinical Research**
12. **Sri Ramachandra Faculty of Engineering & Technology**

Academic Programs

Currently, the university offers 152 undergraduate and postgraduate programs in medical, dental, para-medical and allied health sciences disciplines. The enrollment stands in excess of 7639 students.

Ph.D. PROGRAM AT DEEMED UNIVERSITY (Full time and Part time)

The Deemed University offers enrollment for Ph.D. in the several disciplines including Medicine & allied subjects, Surgery & allied subjects and Basic Medical Sciences / Dentistry / Pharmacy / Nursing / Human Genetics / Biomedical Sciences / Biotechnology / Bioinformatics / Physiotherapy / Management / Allied Health Sciences / Audiology and Speech-Language Pathology / Clinical Nutrition / Clinical Psychology / Public Health / Sports & Exercise Sciences / Clinical Research / Engineering & Technology.

The Deemed University has awarded 262 Ph.D. Degrees in all faculties to date. There are currently over 433 Ph.D. Scholars on roll.

The Integrated MD/MS-Ph.D. Fellowships sponsored by ICMR is a flagship program of the Deemed University for medical postgraduates. The Deemed University offers Founder-Chancellor Shri N.P.V.Ramasamy Udayar Research Fellowship with stipend for full time scholars enrolled in Ph.D. program.

RESEARCH IN THE SRI RAMACHANDRA INSTITUTE OF HIGHER EDUCATION & RESEARCH (SRIHER) DEEMED UNIVERSITY

Research at SRIHER is driven by the institutional and national vision to contribute to the prevention and alleviation of disease and disability, leading to the betterment of the health of our population. A network of sophisticated research laboratories provides world class facilities to faculty and students for engagement in medicine, clinical, biomedical, public health, pharmaceutical, health sciences, engineering technology and healthcare management related research. There is special emphasis on multi-disciplinary and collaborative research where in faculty members drawn from different departments and divisions routinely take up high impact research to inform national and international health priorities.

Thrust areas of research are diverse and include non-communicable disease epidemiology, medical genetics and genomics, maternal health, child growth and development, cancer biology, molecular oncology, exercise physiology, occupational and environmental health, clinical virology, radiation biology, speech language and neurodevelopment, nursing care, drug development and discovery, bio-materials and nano-technology, stem cell and regenerative biology, preclinical toxicology, public policy and health care financing, artificial intelligence in healthcare technology, to name a few.

With a network of more than 60 institutional collaborators, that include numerous international (USA, European, Australia) and Indian universities, Governmental and non-governmental research institutions, the faculty at SRIHER have been involved in abundant national and global research and training efforts. Funders include major national agencies such as Department of Science and Technology, Department of Biotechnology, Indian Council of Medical Research, AYUSH, Defense Research Development Organization and Ministry of Environment, Board of Radiation and Nuclear Sciences, International funding agencies like National Institutes of Health (USA), The Wellcome Trust and The Bill and Melinda Gates Foundation. SRIHER also has an excellent set of intra-mural funding support schemes to help undergraduate, postgraduate and PhD students as well as junior faculty seed their research explorations and build capacities for attracting extramural funds.

Publications and citations from the SRIHER research community have been significant with over 8500 indexed articles and a cumulative H-Index of 83 to their credit.

The Office of Dean (Research) provides centralized administrative support for all aspects of research management including research planning, grant administration (including human resource, financial and equipment management) and registrations/ approvals from relevant national and international certifying bodies and infrastructure. A central shared sophisticated laboratory that includes instrumentation for bio-analytical chemistry, cell and molecular biology, genomics and proteomics, clinical virology and optical imaging cell provides support for internal and external student/faculty researchers for equipment requirements that cannot be ordinarily met from individual grants. The GLP accredited pre-clinical toxicology facility and FDA audited Clinical trial division cater the needs of Pre-Clinical and Clinical research requirements. In addition, SRIHER is a recipient of infra-structure grants from DST and DBT that support the maintenance and operation of the shared high-end instrumentation.

Recently SRIHER has received support from the Biotechnology Industry Research Assistance Council (BIRAC) of DBT, Govt. of India to establish a BioNest incubator to develop entrepreneurs engaged in scaling health care technologies. Focal areas of the SRIHER BioNest incubator will include Clinical Validation of Medical Devices, Point of Care Diagnostic Kits, Nanotechnology and Artificial Intelligence (AI) / Machine Learning (ML) based tools in healthcare. With access to multiple clinical specialties and clinical/basic science research groups within the same campus, the SRIHER Bio-incubator is poised to become a major player in nurturing health care related start-ups.

SRI RAMACHANDRA HOSPITAL:

Sri Ramachandra Hospital is a major Tertiary care and Referral Centre located within the Deemed University campus. The hospital caters to the needs of the students for their learning and training in various specialities. Placed in a suburban locality and amidst major highways, the hospital serves a cross section of the community belonging to every economic segment of the society. On an average 5,000 patients visit the out-patient facility every day. The diagnostic capability available at the hospital is comparable to any University Hospital in any advanced country. The sophisticated clinical laboratory, AABB accredited blood bank and a wide range of imaging facilities including C.T. Scan, MRI, Multi Detector Slice Spiral CT, Cardiac Angiography, Cerebral Angiography and Gamma Camera add to the diagnostic armamentarium of the Hospital.

LIBRARY:

A centrally air-conditioned resource centre and Wi-Fi enabled premise largely known as Sri Ramachandra Central Library is spread in an area of 40,000 sq.ft. SRIHER Central library holds a rare book collection of **ancient books**, The time span of these books spread from the eighteenth to the nineteenth century. As books offer a way to experience the past, the physical aspects of these books can lend enrichment of knowledge and insight into the culture and intellectual spirit of a specific time period. These resources are effectively utilized by the research scholars for their reviews in research studies. Apart from these the Ph.D. **thesis submitted in the Institute by the research scholars are available since 1996 are boon to the research scholars for their reference work.**

The central library has huge collections of textbooks and journals available both in hard copies and electronic versions. These electronic versions of the resources can be accessed in and out of the campus through remote access facility software. The Ph.D. theses submitted in the Institute are deposited in the national reservoir of Ph.D, theses called Inflibnet Shodhganga as required by the UGC to combat plagiarism. The library has Urkund Anti Plagiarism software tool which enables researchers to counter check their documents to find the similarities and to avoid them before final submission.

The central library is a member of the **National Digital Library** and in the World eBook library. The resources available in these databases can be accessed by the members of the institute anytime and anywhere.

HOSTELS:

There are separate hostel facilities for both men and women students with 3500 single rooms inside the campus to accommodate undergraduate and postgraduate and research students in medical and other disciplines. The campus has continuous running soft water supply and power supply. The avenues of trees and green plants give a resort-like-ambience which is highly conducive to pleasant learning and peaceful living within the campus. Hostels are also equipped with internet facility for the benefit of the residents.
