



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 (April, 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

(April, 2021 session)

Ph.D. ADMISSION UNDER THE FACULTY OF MEDICINE / DENTISTRY / PHARMACY / NURSING / PHYSIOTHERAPY / BIOMEDICAL SCIENCES / MANAGEMENT / ALLIED HEALTH SCIENCES / PUBLIC HEALTH / SPORTS & EXERCISE SCIENCES / CLINICAL RESEARCH / FOR ENGINEERING AND TECHNOLOGY (see para 3)

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 health sciences and para-medical 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 of the Deemed University 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 / For Engineering & Technology (see para 3).

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 online 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. 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 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.

2. PART-TIME (External):-

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 candidate will submit a CV along with brief outline of the topic of interest
- If a potential supervisor and the needed facilities are available to carry out the research, the Provost, Engineering and Technology will ask the candidate to take the entrance examinations. If the faculty or the facilities are not available, the candidate will be advised to seek other avenues for research.
- If it is determined that provisions exist to carry out research in SRET, the candidate may proceed to take the entrance examination.
- 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 problem involved, the Engineering and Technology Faculty 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 the Faculty of Engineering and Technology and an industry or an academic expert appointed by the Vice Chancellor / Dean of Research / Provost 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 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 those full time eligible 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.

ONLINE ENTRANCE EXAMINATION

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

Performance of the candidate will be calculated on written test (70% weightage) and interview (30% weightage). Interview will be conducted online for each candidate after the entrance exam and 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.

SYLLABUS AND PATTERN OF ONLINE ENTRANCE EXAMINATION:

- (a) Syllabus for Online Entrance Examination is available in the website www.sriramachandra.edu.in
- (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 / Engineering & Technology.

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 wrong answer.

(f) Results will be published in the Deemed University website: www.sriramachandra.edu.in

Sri Ramachandra Institute of Higher Education & Research (DU)

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 (DU).

ACCREDITATION:

- Graded as a Category I University by the University Grant’s Commission (UGC).
- Sri Ramachandra Deemed University has been accredited (cycle-2) by National Assessment and Accreditation Council (NAAC) with CGPA of 3.62 on four point scale at ‘A’ Grade.
- The Deemed University is graded as a Category-I University in India by the UGC and ranked 28th among Universities in the NIRF – 2020.
- In the National Institutional Ranking Frame work (NIRF–2020), SRMC & RI has been placed at 13th rank among the Medical Colleges in the country.
- In the National Institutional Ranking Frame work (NIRF–2020), College of Pharmacy has been placed at 26th rank among the Pharmacy Colleges in the country.
- In the National Institutional Ranking Frame work (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 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
- 5th Rank in Swachh campus by MHRD for Universities (Residential) in India.

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**

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 7188 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 269 Ph.D. Degrees in all faculties to date. There are currently over 361 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 post-graduates. 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 DEEMED UNIVERSITY

The major and minor research projects operational in the University are broadly classified as

- (a) International collaborative projects
- (b) Sponsored research projects funded by national agencies like Department of Science and Technology, Department of Bio-Technology, Indian Council of Medical Research, AYUSH, Defense Research Development Organization etc., and International funding agencies like

NIH, Fogarty, Wellcome Foundation, MRC London, Smile Train USA, Transforming Faces Canada etc.

- (c) Industry - institutional R&D consultancy projects jointly funded by DST, industries and international agencies
- (d) Multinational and multi centric clinical trials, and
- (e) Individual research projects by faculty.

Besides the above extramurally funded research projects, the university awards from its own budgetary allocation some projects and

- (i) UG – Summer Research projects
- (ii) Founder-Chancellor Ph.D. Research Fellowships and
- (iii) GATE Research Starter Grants to Young Faculty.

All Post graduate students have a mandatory requirement to complete the Postgraduate dissertation and in addition several undergraduate include a research project in their curriculum.

As an innovative research strengthening initiative, the Deemed University has established 11 Centres of Research on thrust areas of strength demonstrated by the faculty.

1. Centre for Life Style diseases modification and prevention.
2. Centre for Indian Systems of Medicine Quality Assurance and Standardization.
3. Centre for Regenerative Medicine and Stem Cell Research.
4. Centre for Biomedical Nanotechnology.
5. Centre for Pre-Clinical and Translational Medicine & Research.
6. Centre of Sports Sciences.
7. Health Professional Education & Faculty Development.
8. Centre for Global Collaboration.
9. Centre for Healthcare Quality & Patient Safety.
10. Centre for Perinatal Sciences.
11. Centre for International Patient services.

Central Research Faculty

The Central Research Facility (CRF) which was established in 2007, as the “A to Z gateway” for research, takes care of all logistics of research planning, research projects administration, research documentation, providing centralized sophisticated equipment facility and University-Industry Liaison Centre with IPR/patents Cell, etc., on a ‘ready to use platform’ of the entire Deemed University.

- a. The CRF is housed in a 25,000 sq.ft. exclusive facility with a sophisticated instrumentation laboratory containing the latest equipments. There is also the FDA audited and DCGI Registered Clinical Trial Division. This includes Sophisticated Instrumentation Laboratory.
- b. Epidemiology – Research Division.
- c. Clinical Trial Division.
- d. Exclusive Research Governance Division.

- e. Centre for Toxicology & Developmental Research.
- f. Herbal Garden.
- g. Specialized Clinical & Biomedical centre

The **Centre for Toxicology and Developmental Research (CEFTE)** is also functioning in a 15,000 sq.ft. area with state-of-the-art facilities and it has been approved by Committee for the Purpose of Control and Supervision of Experiments on Animals (CPCSEA) as a GLP compliant animal facility. CEFT undertakes a number of preclinical toxicology studies for Researchers and Industries.

Innovation Ecosystem

The Deemed University has created an ecosystem for innovations and entrepreneurship with an Incubation centre and entrepreneurship cell

SRIHER (DU) has created an innovation ecosystem with the participation of students, faculty members, industry partners, external clients and consultants. User-friendly policy guidelines, institution-provided infrastructure, administrative and financial decentralization of powers and functions emerged as the facilitating factors. The innovation ecosystem includes:

- a. Entrepreneurship Development Cell (E-Cell)
- b. Sri Ramachandra Innovation-Incubation Centre (SRIIC) along with the BIRAC sanctioned BIONEST BIOINCUBATOR
- c. Institution Innovation Council (IIC) sanctioned by MHRD-AICTE
- d. Student-specific innovation-promoting programmes like “Innovation Bazar”
- e. Innovation-based collaborative product/process developing projects with partnering institutions like IIT-M.

a. Entrepreneurship Development Cell (E-Cell):

The E-Cell of SRIHER (DU) is imparting entrepreneurship skills among students and faculty members through seminars, workshops, e-week on campus, etc. The MoU with National Entrepreneurship Network (NEN) enabled entrepreneurial education with a mix of classroom and practical training facilitated by the consulting and education team. In these programs, faculty members play the role as facilitators and also undergo Faculty Development Programmes, by participating in the Entrepreneurship Educator Workshops of NEN and in turn train other faculty members. A course named ‘NEN Course 100’ was launched as a blended learning course with faculty members as facilitators. Every year NEN E-Week is conducted to encourage entrepreneurial activities and students put up stalls and exhibit their ideas. Student E-leaders are chosen who coordinate the student-led entrepreneurial activities.

b. Incubatees / Start-ups through SRIIC

SRIIC was started in 2014 with the purpose of providing laboratory infrastructure, exchanging technomanagerial expertise and promotion of novel technology and business ideas into viable commercial products or services. It provides IPR protection support, academic and mentor support.

Necessary policy guidelines have been framed which are duly approved by the BoM of SRIHER (DU). In 2019, BIRACDBT, Gov. of India has sanctioned the BIONEST-BIOINCUBATOR to SRIIC.

In the last five years (2014-2019), six incubatees/start-ups are working with SRIIC. They are M/s.V ClinBio Labs (P) Ltd. (2014-2017), M/s. Med Genome (P) Ltd. (2017), HCL Technologies Ltd. - Biology Division (2018), AIMED Technologies (P) Ltd. (2019), M/s. Ignobilis Terrain LLP(P) Ltd. (2019) and Only Health (P) Ltd. (2019). An organic indoor plant was started in 2018 in the Faculty of Management.

c. Institution Innovation Council (IIC)

The IIC was sanctioned to SRIHER (DU) by MHRD/AICTE, Govt. of India in 2018 with a view to encourage, inspire and nurture young students by supporting them to work with new ideas. It has students and teachers as members. It has participated in MHRD-IIC activities like webinars, national online programmes, etc. A student research convention program – ANVESHAN was conducted on 11th January 2019 with 220 undergraduate and postgraduate students and research scholars who presented their research projects as printed/E-posters and models. Five participants progressed to the Southern Region Convention, of which one project qualified for the national level competition. A patent application has been filed out of this project.

d. Innovation Bazaar:

As an innovation – igniting activity, SRIHER organized Innovation Bazaar providing an opportunity for 240 students to display their projects, proof of concepts and innovative ideas evaluated by experts. Successful students received awards and merit certificates.

LABORATORIES ATTACHED TO SPECIFIC FACULTIES:

The Deemed University has research laboratory facilities in the faculty of Pharmacy, Nursing, Physiotherapy, Allied Health Sciences and Biomedical Sciences to carryout research.

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 large Library, known as Sri Ramachandra Learning Centre is ideally located in an area of 40,000 sq.ft. The students and faculty gain free access to a large collection of Medical and related books and journals gathered over a period of 35 years which provide rich study and reference material. The Library has a good stock of audio and video-cassettes on various subjects and facilities for microfiche access.

The “e-Learning Resource Centre” with 48 new updated systems and Wi-Fi facility with access to Medlars, Internet and CD-ROM facilities. It is an excellent learning centre in which a huge collection of models of anatomical interest are also exhibited for the benefit of the students and faculty. Apart from this, book bank services are also available for the students. In addition to hard copies, around 1,000 journals are also available online at the active learning centre through “ProQuest & MEDLARS”, where unlimited access is available to the students.

HOSTELS:

There are separate hostel facilities for both men and women students with 3500 single rooms inside the campus to accommodate undergraduate and postgraduate 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.
