GROUP: PG - C

SRI RAMACHANDRA
INSTITUTE OF HIGHER EDUCATION AND RESEARCH

(Deemed to be University),
Porur, Chennai - 600116

Graded as a Category - I University by the UGC and Accredited by NAAC with 'A' Grade

website: www.sriramachandra.edu.in

PROSPECTUS

PG Paramedical / Health Sciences Degree Programs – (2020 –21)

- M.P.T
- M.Sc. (Medical Anatomy)
- M.Sc. (Medical Physiology)
- M.Sc. (Medical Biochemistry)
- M.Sc. (Medical Microbiology and Applied Molecular biology)
- M.Sc. (Medical Laboratory Technology)
- M.Sc. (Neuro Science)
- M.Sc. (Medical Imaging Technology)
- M.Sc. (Renal Sciences & Dialysis Technology)
- M.Sc. (Urology Technology)
- M.Sc. (Human Genetics)
- M.Sc. (Biotechnology)
- M.Sc. (Medical Bioinformatics)
- M.Sc. (Clinical Nutrition)
- M.Sc. (Trauma Care Management)
- M.Sc. (Perfusion Technology)
- M.Sc. (Applied Child Development)
- M.Sc. (Biomedical Sciences)
- M.Optom. (Master of Optometry)
- M.Sc. (Clinical Embryology)
- M.P.H. (Occupational and Environmental Health)
- M.Sc. (Clinical Research)
- M.Sc. (Medical Psychology)
- M.Sc. (Clinical Psychology)
- M.Sc. (Applied And Regulatory Toxicology)
- M.Sc. (Clinical Immunology)
- M.Sc. (Respiratory Therapy)
- M.Sc. Mind-Body and Life Style Science
- M.Sc. (Stem Cell and Regenerative Biology)

Innovative Programs offered under Sri Ramachandra Faculty of Sports and Exercise Sciences

- MPT. Sports Physiotherapy
- M.Sc. (Sports and Exercise Psychology)

Reaccredited by National Assessment and Accreditation Council with 'A' Grade

NABH Reaccredited

NGCMA, DST, Govt. of India GLP Compliance Certified CEFT (Centre for Toxicology & Developmental Research)

(Late) Shri N.P.V. RAMASAMY UDAYAR
FOUNDER - CHANCELLOR

The Mission

Sri Ramachandra University
will actively promote and preserve the higher values and ethics
in education, health care and research and
will pursue excellence in all these areas
while consciously meeting the expectations
of the people it serves without prejudice and
in all fairness stay socially meaningful
in its propagation of the various arts and sciences
to enrich humanity at large.

SRI RAMACHANDRA

INSTITUTE OF HIGHER EDUCATION AND RESEARCH

(Deemed to be University)

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Porur, Chennai – 600116

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.

The objective of the institution is to have the facility raised and developed to a level comparable to any major medical establishment in advanced countries. With this goal in mind, the Trust, in close co-operation of, and the able guidance from professional experts in administration and teaching, has developed this sprawling 150 acres of green campus to a level of a prestigious Deemed University today. Further milestones were reached as on April 1, 1997 when an inter-institutional alliance between Harvard Medical International, USA and Sri Ramachandra Medical College and Research Institute was signed, which had further led the institution towards enhanced quality in the areas of medical education, health care and research and enhanced its visibility and recognition at the international level.

Harvard Medical International, in its annual report 2007, stated that "Sri Ramachandra is the model of a learning institution in both its medical school and hospitals. They have pursued faculty development with great rigor, and in the hospital are striving to be a quality leader in India. The Institution stands out because of its commitment to taking care of all".

As notified by the Central Government, the name of the Deemed University has been changed as Sri Ramachandra Institute of Higher Education and Research. An important milestone has been achieved when Sri Ramachandra Institute of Higher Education and Research was graded as Category - I University by UGC in 2018.

Sri Ramachandra Medical College and Research Institute is among the very few Medical Institutes in India which have been sanctioned 250 seats in MBBS Degree course by the Medical Council of India from the academic year 2011-12. In the National Institutional Ranking Frame work (NIRF – 2020), SRMC & RI has been placed at 13th rank among the Medical Colleges, Sri Ramachandra Faculty of Dental Sciences at 7th rank among the Dental Colleges and Sri Ramachandra Faculty of pharmacy at 26th rank among the Pharmacy Colleges in the country, by the Ministry of Human Resource Development, Government of India.

ACCREDITATION:

Sri Ramachandra Institute of Higher Education and Research (Deemed to be 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 and ranked 28 among Universities in NIRF – 2020.

The Clinical Laboratory is NABL accredited. The CEFTE is a GLP certified animal and toxicology facility located within the Deemed University. It is the first Medical University in India to get the GLP Certification from DST, Govt. of India.

UNESCO Chair in Bioethics has been established at the Deemed University.

FACULTIES/CONSTITUENT COLLEGES:

The following are the Faculties/constituent college of Sri Ramachandra Institute of Higher Education and Research (Deemed to be University):

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 and Technology**

The Deemed University offers at present D.Sc., Ph.D., 35 Degree courses at undergraduate level in medical, dental, para-medical, allied health sciences and Engineering & Technology disciplines and 51 courses in Medical, 8 courses in Dentistry , 47 para-medical and Allied Health sciences and 2 M.Sc. Degree Programs in Engineering & Technology at Postgraduate level, besides the 13 HSSC courses and 1 Certificate Course. In all, around 6,800 students who come from different parts of the country and abroad receive their teaching and training within the campus which presents a vibrant atmosphere highly conducive for higher education.

SRI RAMACHANDRA MEDICAL COLLEGE AND RESEARCH INSTITUTE:

Sri Ramachandra Medical College and Research Institute has, since its inception in 1985, always been in the forefront of medical education. A fully integrated, innovative, competency based curriculum as notified by the Medical Council of India has been developed for the MBBS Degree program that allows students to learn in a patient-centered manner. With assistance from Harvard Medical International and through extensive faculty development, value addition has been provided to the MBBS and MD/MS program to make it more student centered. Class rooms have been redesigned with smart boards and simulation lab to reflect the new teaching ethos. Small group discussion areas have been created.

- Sri Ramachandra Medical College and Research Institute is recognized by the Medical Council of India, General Medical Council of UK, Medical Council of Thailand and Sri Lanka.
- Sri Ramachandra Medical College and Research Institute is included in the Directory of the World Health Organisation.
- The Medical Council of India (MCI) has recognized Sri Ramachandra Medical College and Research Institute of Sri Ramachandra Institute of Higher Education & Research (Deemed to be University), as a Nodal Centre to conduct both Basic and Advance course in Medical Education Technologies to the faculty members working in around 40 Medical Colleges in South India.

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, Dental, Engineering 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. RFID reader facility has been introduced.

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, dental 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 inmates.

SRI RAMACHANDRA HOSPITAL:

Sri Ramachandra Hospital is a major Tertiary care and referral centre located within this 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 everyday. The diagnostic capability available at the hospital is comparable to any University Hospital in any advanced country. The sophisticated clinical laboratory, 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.

The Neurology Laboratory, Pulmonology Laboratory, Non-invasive and invasive Cardiac Laboratories have all been developed to the current state-of-the-art level. The most modern operation theatres, ICU and Critical Care beds add to this unique facility. The students have unlimited opportunities to learn in this modern hospital. Similarly, specialities have grown in the last 35 years in every facet of medical advancement. The Cardio Vascular & Thoracic Surgery programs have already reached a significant level of perfection as also the other major divisions like Vascular Surgery, Neuro Surgery Interventional Neuro Radiology, Critical Care Medicine, Reproductive Medicine and transplantation hepatology, hand surgery, radiation oncology, cardiac anaesthesiology, rheumatology. medical and surgical oncology services.

Clinical Skills Labs in several departments like Orthopaedics, General Surgery, Obstetrics and Gynaecology, ENT provide opportunities for postgraduate students to acquire the much sought after practical skills in complex surgical procedures.

TELEMEDICINE:

The Deemed University has national level visibility as a centre of excellence in exploiting Information Technology to the hilt, by establishing state-of-the-art Telemedicine facility through Satellite, ISDN lines and Internet connectivity. Both students and the faculty benefit from Tele-Medicine Centre which is well connected with various national and international Institutions.

CENTRAL RESEARCH FACILITY:

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.

The CRF is housed in a 25,000 sq.ft. exclusive facility with a sophisticated instrumentation laboratory containing the latest equipments. CRF also has the (i) Centre for Life style diseases; (ii) Centre for Stem Cell Research; (iii) Centre for Indian Systems of Medicine and (iv) Centre for preclinical and Translational Medicine. There is also the FDA audited and DCGI Registered Clinical Trial Division and other 14 Centers of Research recognized by National and International agencies. In the last 5 years, 83 sponsored research projects with grants to the tune of INR 375.9 million have been carried out in the Deemed University.

Further, the Centre for Toxicology and Developmental Research (CEFT) is also functioning in 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.

ANTI-RAGGING MEASURES:

Ragging is strictly prohibited in this Campus. Sri Ramachandra Institute of Higher Education and Research (Deemed to be University) strictly enforces anti-ragging measures and the campus is free from any form of ragging. Any violation will be dealt with according to the law in force and as per the directives of the Supreme Court of India.

The Deemed University has adopted the

I. **"UGC Regulations on curbing the menace of Ragging in Higher Educational Institutions, 2009" (as amended);**

II. **"Medical Council of India(Prevention and Prohibition of ragging in Medical College / Institutions) Regulations, 2009" (as amended);**

III. **"Dental Council of India Regulations on curbing the menace of Ragging in Dental Colleges, 2009" (as amended); a n d**

IV. **All India Council for Technical Education notified Regulations for prevention and prohibition of ragging in AICTE approved Technical Institutions vide No. 37-3/LEGAL/AICTE/2009 dated 01.07.2009.**

These Regulations shall be applicable to all students. Full text of the Regulations is available in the University Website: www.sriramachandra.edu.in.

Further, attention of the students and parents is invited to Sections 4 and 5 of the Tamil Nadu Prohibition of Ragging Act, 1997 which are reproduced below:

Section 4: - Whoever commits, participates in, abets or propagates 'ragging' within or without any educational institution, shall be punished with imprisonment for a term which may extend to two years and shall also be liable to a fine which may extend to Rs.10,000/-(Rupees Ten thousand).

Section 5: - Any student convicted of an offence under section 4 shall also be dismissed from the educational institution and such student shall not be admitted in any other educational institution.

Data on Ragging:

i. No. of ragging incidents during the academic year 2019 - 20 : NIL

ii. Punishment awarded : NIL

ADMISSION TO POSTGRADUATE PARA MEDICAL / HEALTH SCIENCES DEGREE PROGRAMS - 2020-21

PROGRAMS OFFERED:

Program		Duration	No. of Sanctioned Seats	Fee per academic year Rs.	Date & Time of Interview
M.P.T	i) Orthopaedics & Traumatology	2 Years (Under CBCS)	10	1,25,000/-	17.09.2020 (THURSDAY) 18.09.2020 (FRIDAY) 10.00 a.m.
	ii) Neuro Sciences		10		
	iii) Cardio- Pulmonary Sciences		6		
	iv) Women's Health		4		
M.Sc. (Medical Anatomy)		3 years (Non-Semester pattern)	3	1,25,000/-	
M.Sc. (Medical Physiology)			3		
M.Sc. (Medical Biochemistry)			3		
M.Sc. (Medical Microbiology and Applied Molecular Biology)			3		
M.Sc. (Medical Laboratory Technology)		2 years (Under CBCS)	9	75,000/-	
M.Sc. (Neuroscience)			3	1,25,000/-	
M.Sc. (Medical Imaging Technology)			3	1,25,000/-	
M.Sc. (Renal Sciences & Dialysis Technology)			3	1,50,000/-	
M.Sc. (Urology Technology)			5	1,25,000/-	
M.Sc. (Human Genetics)			20	1,25,000/-	
M.Sc. (Biotechnology)			20	75,000/-	
M.Sc. (Medical Bioinformatics)			20	75,000/-	
M.Sc. (Clinical Nutrition)			40	1,00,000/-	
M.Sc. (Trauma Care Management)			2	1,00,000/-	
M.Sc. (Perfusion Technology)			3	1,50,000/	
M.Sc. (Applied Child Development)			6	1,00,000/-	
M.Sc. (Biomedical Sciences)			15	1,25,000/-	
M.Optom. (Master of Optometry)			10	1,50,000/-	
M.Sc. (Clinical Embryology)		2 years (Non-Semester pattern)	4	5,00,000/-	
M.P.H. (Occupational and Environmental Health)		2 years (Under CBCS)	10 *	1,25,000/-	
M.Sc. (Clinical Research)			15	1,50,000/-	
M.Sc. (Medical Psychology)			20	1,50,000/-	
M.Sc. (Clinical Psychology)			20	1,50,000/-	
M.Sc. (Applied and Regulatory Toxicology)			15	1,75,000/-	
M.Sc. Clinical Immunology			10	1,50,000/-	
M.Sc.(Respiratory Therapy)			4	1,50,000/-	
M.Sc. Mind-Body and Life Style Science			15	2,00,000/-	
M.Sc. (Stem Cell and Regenerative Biology)			15	2,00,000/-	
MPT. Sports Physiotherapy		2 years	10	2,50,000/-	
M.Sc. (Sports and Exercise Psychology)		2 years	15	2,00,000/-	

* Out of 10 seats 3 seats will be allotted to candidates sponsored by Industry / Govt.

MASTER OF PHYSIOTHERAPY (M.P.T.) DEGREE COURSE
(Under CBCS)

INTRODUCTION:

Sri Ramachandra College of Physiotherapy was started in 1993 offering initially Bachelor of Physiotherapy Degree Course. Master of Physiotherapy course was introduced in the academic year 2000-2001.

The Physiotherapy students are provided with excellent facilities for curricular activities. State-of-the-art multi-speciality Sri Ramachandra Hospital located within the Deemed University campus offers rich and enormous clinical materials required for clinical training and skill development. Academic and practical performances of the students are enhanced with continuous supervision and guidance by the efficient faculty members of various Departments. Apart from regular class room teaching, practical demonstrations and clinical training are also provided. Emphasis is given on group discussion through weekly seminars and daily case presentations.

SPECIALITIES:

(i) Orthopaedics & Traumatology, (ii) Neuro Sciences (iii) Cardio-Pulmonary Sciences and

iv) Women's Health

ORTHOPAEDICS & TRAUMATOLOGY:

Students opting this specialization are exposed to different concepts of treatment of orthopaedics like Maitland, McKenzie, Cyriax, Muligan etc., They get exposed to pain management and post trauma, post surgical rehabilitation. Special emphasis is given in plastic surgery and sports related injuries. Orthotic and Prosthetic department helps the student to understand and prescribe appropriate orthotic and prosthetics.

NEURO SCIENCES:

This specialization covers rehabilitation of both adult and paediatric neurological conditions. Concepts like MRP, NDT, Brunnstrom are taught with practical application. Availability of vast number of patients in neurology for the students to attend, improves their skill. Exposure to neuro-intensive care unit is a unique experience.

CARDIO-PULMONARY SCIENCES:

Cardiac and pulmonary rehabilitation concepts are taught to its depth in this programme. Students are exposed to Cardiac Intensive Care Unit with post thoracotomy patients improves their knowledge and skills. Involvement of students in Phase I of cardiac rehabilitation and initiation of Phase II implements the concepts they learns into practice. Students are exposed to well structured Intensive Care Units and routines in the ICU.

WOMEN'S HEALTH:

MPT (Women's Health) Program in Physiotherapy, helps to understand the Physiology, Pathophysiology and Psychology related to Pregnancy, menopause and ageing in women. The program delivers in depth knowledge and skill to evaluate, plan and deliver appropriate physiotherapy for women in different age groups based on their physical needs.

ELIGIBILITY:

(a) Candidates should possess Bachelor of Physiotherapy Degree (Full-time) awarded by any recognised University and completed 6 months of internship on or before 31.08.2020.

M.Sc. (MEDICAL ANATOMY) DEGREE COURSE

INTRODUCTION:

The Department of Anatomy of Sri Ramachandra Medical College and Research Institute offers a three year M.Sc. (Medical Anatomy) Degree course in the Faculty of Medicine. This course was introduced in the year 2006-07.

The course provides training in various fields of human anatomy and aims at helping the students reach higher levels of excellence in teaching and research in Medical colleges, Dental colleges and Research institutes. On successful completion of the course, the student will be highly preferred for a bright career as a faculty or a research scholar in various emerging fields of Health sciences, Dentistry, Cytogenetics, Cell-Biology, Stem-cell research, Organ transplantation, Physiotherapy, Occupational therapy, Speech therapy, Optometry, Anthropology and Alternate systems of Medicine in India and abroad. The turn of the 21st Century is witnessing, great strides of development in the above fields. There is an increasing demand for trained faculty in Anatomy in research and development centres. This Postgraduate degree provides good scope for the candidates to work as research fellow in the fields of medicine. Opportunities to pursue this course is sought by many avid and ambitious students as they are aware of the great future that is in store for them.

OBJECTIVES:

On completion of the M.Sc. (Medical Anatomy) Degree course, the student will be able to demonstrate the necessary knowledge and competency to comprehend Topographical anatomy, Developmental anatomy, Surgical anatomy, Comparative anatomy, Forensic anatomy, Histology, Neurobiology, Basic human Pathology, Anatomical techniques, Anthropology, Cytogenetics and recent advances in Medical Imaging and Nuclear Medicine.

HIGHLIGHTS OF THE COURSE:

The M.Sc. (Medical Anatomy) Degree course is well-structured. It includes didactic lectures, practical teaching and learning, small group discussions, seminars, symposia, journal clubs, clinical postings, scientific workshops, scientific paper presentations in the National and International conferences, project work and dissertation work. Further the students will also be given training in the field of Research Methodology, Biostatistics and Computer application. The Masters programme in Anatomy attracts science graduates of high caliber from all over the country and abroad.

ELIGIBILITY:

(a) Candidates should possess MBBS/BDS/B.P.T./B.Sc. Allied Health Sciences/Emergency & Trauma Care Technology/Zoology/Botany/Chemistry/Life Sciences/Biosciences/Medical Laboratory Technology/Bachelor of Unani Medical Sciences (BUMS)/Bachelor of Ayurvedic Medical Sciences (BAMS)/Bachelor of Homeopathy Medical Sciences (BHMS)/Bachelor of Siddha Medical Sciences (BSMS) Degree awarded by any recognised University.

M.Sc. (MEDICAL PHYSIOLOGY) DEGREE COURSE

INTRODUCTION :

The Department of Physiology of Sri Ramachandra Medical College and Research Institute offers a three year M.Sc. (Medical Physiology) Degree course in the Faculty of Medicine. This course was introduced in the year 2006-07.

The course provides in-depth understanding of how the human body works normally. As new drugs are introduced, novel diagnostic and interventional techniques are developed and a better understanding is obtained of how the genome alters function, it is more and more critical for the present day medical students to understand the principles of both normal and abnormal functions of the body. This course provides an opportunity to explore some topics in greater depth, discuss difficult areas informally, and help them with written work and oral presentations.

OBJECTIVES:

The major objective of M.Sc. (Medical Physiology) Degree course is to enable the candidate to understand the basis of normal functioning of the human body and to acquire knowledge about its applications in medicine and to become an effective member of the teaching team. To be very specific, the objectives are:

- To demonstrate comprehensive understanding of Physiology
- To develop skills as a self-directed learner, recognise the need for continuing education and select and use appropriate learning resources
- To teach undergraduates and postgraduates in Physiology
- To plan and conduct research
- To organize and equip physiology laboratories
- To design, fabricate and use indigenous gadgets for experimental purposes
- To function as an effective member of teaching team or Research team; and
- To demonstrate competence in basic concepts of research methodology and be able to critically analyse relevant published research literature.

METHODOLOGY:

The course is implemented with both traditional and modern techniques such as didactic lectures, seminars, journal club, research work, clinical training and practical experiments (Haematology, clinical, amphibian & mammalian). Problem based and case-based learning sessions in different topics in Physiology will be conducted and possibly this will be of more use for those interested in moving from one form of teaching to the other.

The Department of Physiology with adequate, competent and enthusiastic faculty members with vast experience in teaching and research encourages students to attend and present papers in National and International conferences.

OPPORTUNITIES:

- To become a teacher in Physiology for Medical and any Paramedical course.
- To plan independently and structure scientific research.

FACILITIES AVAILABLE:

Lecture Hall: The Lecture theatre is air conditioned and equipped with LCD projector and a public addressing system.

Tutorial Halls: There are three tutorial halls with facilities like Over Head Projector, Slide Projector, amplifier, Speakers, Mikes and Audio Visual Aid, 35mm Auto projector, and in addition charts, models etc.

Clinical laboratory is used for the performance of the clinical experiments, which forms a substantial part of the preclinical laboratory curriculum. It is equipped with the Benedict Roth apparatus, Spirometer, Ergograph, Stethograph and all other equipments required for routine practicals.

Amphibian laboratory is used for the demonstration of haematology experiments.

Mammalian laboratory is equipped for the demonstration of mammalian experiments. The postgraduate laboratory is also equipped with Organ baths, Langendorff apparatus, Long paper kymograph etc.

Research laboratory is equipped with 8 Channel Polygraph, Physiograph, Computerized Med Spir, Stereotaxic instruments, pH meter, Colorimeter, UV-Vis spectrophotometer etc.

Library of the department has textbooks, reference books and journals needed for the students. There is also central library with a large collection for the use of all staff and students.

ELIGIBILITY:

(a) Candidates should possess MBBS/BDS/B.Sc. Allied Health Sciences/Emergency and Trauma Care Technology/Zoology/Nutrition/B.P.T. and other para medical courses/Bachelor of Siddha Medical Sciences (BSMS)/Bachelor of Unani Medical Sciences (BUMS)/Bachelor of Ayurvedic Medical Sciences (BAMS)/Bachelor of Homeopathy Medical Sciences (BHMS) Degree awarded by any recognised University.

M.Sc. (MEDICAL BIOCHEMISTRY) DEGREE COURSE

INTRODUCTION:

The Department of Biochemistry of Sri Ramachandra Medical College and Research Institute offers a three year M.Sc. (Medical Biochemistry) Degree course in the Faculty of Medicine. This course was introduced in the year 2006-07.

OBJECTIVES:

- To provide extensive training in General Biochemistry, Clinical Biochemistry and Molecular Biology.
- To develop dynamic and resourceful professionals with expertise in various areas of Biochemistry such as Molecular Basis of disease, Signal transduction, advanced clinical Biochemistry, Proteomics and Genomics etc.
- To provide an extensive training in practical procedures to make the students well versed in various advanced techniques.
- To impart skills in Clinical Biochemistry by hands-on-training in advanced Biochemical equipments.
- To provide training to plan and execute research projects.
- On successful completion of the course, a student will be able to acquire position in teaching Biochemistry for Undergraduates and Postgraduates, acquire position in Research Laboratories in India and abroad, become trained clinical biochemist, with exposure to various state-of-the-art instruments and techniques; organize and equip Biochemistry laboratories in institutions and function as efficient member in all aspects of teaching, diagnosis, and research.

METHODOLOGY:

The Department employs a variety of methods of teaching such as lectures, tutorials, assignments, seminars, group discussions, case presentations, journal club, practical sessions, demonstrations, horizontal and vertical integration, periodical internal assessments, training for basic teaching skills and exposure to research work and workshops.

FACILITIES AVAILABLE:

The Biochemistry Department is well equipped with sophisticated instruments in clinical and research lab for Postgraduate study. The Clinical Biochemistry Department is equipped with the state-of-the-art fully automated instruments such as Kone lab, Dade Behring dimension-RXL, Abottaxsym, ACS Sebia electrophoresis etc. The research lab is equipped with spectrophotometer, ELISA, PCR, pH Meter, Electronic balance and electrophoretic setup. There is an Air conditioned Active Learning Center with 50 Computers, Internet connectivity and LCD facilities.

ELIGIBILITY :

(a) Candidates should possess MBBS/BDS/B.P.T./B.Sc. Allied Health Sciences/Emergency & Trauma Care Technology/Biochemistry/Chemistry/Zoology/Botany/Nutrition/Medical Laboratory Technology/Bachelor of Siddha Medical Sciences (BSMS)/Bachelor of Unani Medical Sciences (BUMS)/Bachelor of Ayurvedic Medical Sciences (BAMS)/Bachelor of Homeopathy Medical Sciences (BHMS) Degree awarded by any recognised University.

M.Sc. (MEDICAL MICROBIOLOGY AND APPLIED MOLECULAR BIOLOGY) DEGREE COURSE

INTRODUCTION:

The Department of Microbiology of Sri Ramachandra Medical College and Research Institute offers a three year M.Sc. (Medical Microbiology and Applied Molecular Biology) Degree course in the Faculty of Medicine. This course was introduced in the year 2006-07.

The Department of Microbiology carries out both academic and diagnostic activities. It has teaching programmes at the undergraduate and postgraduate levels.

The designing of the curriculum and the training provided to the students enable them perform on par with those from other reputed institutions.

Efforts are made to make teaching more effective with multimedia projection with animations, problem based learning and interactive sessions.

The students are briefed on the syllabus, teaching schedule and the internal assessment programme which consists of tests in theory, practicals and viva.

The students are encouraged to give a feedback on the course, teaching modalities and competency of the faculty which helps in improving the quality of the programmes. The parent-teacher meet, and observation of the peer group are also taken into consideration in redesigning of the programmes.

The diagnostic facility attached to the central laboratory, caters to the needs of the inpatients and outpatients of SRMC. Apart from the conventional techniques, semi automated systems have already been introduced. The Department is equipped with facilities for carrying out PCR. A virology section has also been established.

In addition to the teaching and diagnostic work, many of the faculty are also engaged in research and are updating their knowledge by attending conferences, workshops and CME programmes.

ELIGIBILITY:

(a) Candidates should possess MBBS/BDS/B.Sc.Allied Health Sciences/Emergency & Trauma Care Technology/Microbiology/Zoology/Home Science/Medical Laboratory Technology/ Bachelor of Siddha Medical Sciences (BSMS)/Bachelor of Unani Medical Sciences (BUMS)/ Bachelor of Ayurvedic Medical Sciences (BAMS)/Bachelor of Homeopathy Medical Sciences (BHMS) Degree awarded by any recognised University.

M.Sc. (MEDICAL LABORATORY TECHNOLOGY) DEGREE COURSE
(Under CBCS)

INTRODUCTION:

Faculty of Allied Health Sciences of Sri Ramachandra Institute of Higher Education & Research (Deemed to be University) offers a two year M.Sc.(Medical Laboratory Technology) Degree course. This course was introduced in the year 2004-05.

There is a need at the national level for graduates with high level of knowledge and practical skills in hospitals and community-based medical laboratories.

The programme is designed to provide knowledge and update the application of biological and chemical science to the disciplines practised in medical diagnostic and research laboratories.

OBJECTIVES:

- To increase the student's technical competence in laboratory technology;
- To develop an approach to research procedures and understand the importance of property defining research problems
- To provide a working background in scientific writing and data management.
- To increase the student's awareness and knowledge of new laboratory-related technologies.
- To prepare the student for contribution into an appropriate Ph.D. program if desired.

JOB OPPORTUNITIES:

On successful completion of the programme, the students will have a wide range of career opportunity in teaching, administration of labs, research projects, genetic engineering, industrial firms, diagnostic companies, quality control programs, pharmaceutical and food science industries, and other allied areas, such as biomedical research and the laboratory supply industry.

ELIGIBILITY:

(a) Candidates should possess B.Sc. Allied Health Sciences/Medical Laboratory Technology/ Biochemistry/Microbiology/Biotechnology/Genetics Degree or any other equivalent qualification awarded by any recognised University.

M.Sc. (NEUROSCIENCE) DEGREE COURSE
(Under CBCS)

INTRODUCTION:

Faculty of Allied Health Sciences, a constituent college of Sri Ramachandra Institute of Higher Education & Research (Deemed to be University) offers a two year M.Sc. (Neuroscience) Degree course. This course was introduced in the year 2004-05.

There is a need at the national level for graduates with high level of knowledge and practical skill in all areas of clinical neuroscience.

The programme is designed to provide knowledge and update the technical skills required to undertake clinical and research work in the field of Neuroscience.

OBJECTIVES:

- To train graduates in basic scientific principles of modern neuroscience and in the application of these principles to the understanding of wide variety of neurological disorders.
- To enhance the scientific skills of clinicians and to provide non-clinical graduates with insight into clinical problems that will allow them to work along with clinicians in clinical research projects. Emphasis is placed on recording and interpretation of EEG, EMG, Evoked Potentials and Imaging techniques.
- To provide experience and exposure to contemporary techniques used in Neuroscience research. A thorough understanding of the methods and ethos of laboratory research including the design and planning of experiments data presentation, analysis and interpretation, literature searching and laboratory safety.
- To provide training and practice in analysis and oral presentation of scientific data and research papers.

JOB OPPORTUNITIES:

On successful completion of the course, the students will have a wide range of career opportunities in the field of neuroscience as Lecturer, Research scholar, Clinical and Project Coordinator and Laboratory Manager.

ELIGIBILITY:

(a) Candidates should possess MBBS/BDS/B.V.Sc./B.Sc.Allied Health Sciences(3 Years and I Year Internship)/B.P.T./ B.Pharm/B.O.T/BSLHS/BASLP/B.Sc.(Nursing)/BS Physician Assistant Degree or any other degree in medical sciences awarded by any recognized University.

M.Sc. (MEDICAL IMAGING TECHNOLOGY) DEGREE COURSE
(Under CBCS)

INTRODUCTION:

Faculty of Allied Health Sciences of Sri Ramachandra Institute of Higher Education & Research (Deemed to be University) offers a two year M.Sc.(Medical Imaging Technology) Degree course. This course was introduced in the year 2006-07.

There is a need at the national level for graduates with advanced knowledge in imaging principles, procedures in the field of radio diagnosis.

The programme is designed to provide a detailed knowledge and update the technical skills required to undertake recent trends and various radiological procedures in the field of Imaging sciences.

OBJECTIVES:

- To train the students in Imaging field which will be useful to the teaching Institution and Medical Imaging Industry. Emphasis is placed on scientific skills and knowledge in Conventional X-rays, Fluoroscopy, Ultrasound, Colour Doppler, CT Scan, Cardiac CT, Workstation MRI, Functional MRI, DSA, Nuclear Medicine and recent advances in imaging field.
- To provide experience and exposure to contemporary techniques used in Imaging Sciences and Research.

JOB OPPORTUNITIES:

On successful completion of the course, the students will have a wide range of career opportunity in the field of Imaging sciences as Radiology Instructors, Application Specialist, Junior Radiographers, Physicist and Research scholar.

ELIGIBILITY:

(a) Candidates should possess B.Sc. Degree in Allied Health Sciences in the speciality of Radiology and Imaging Sciences/B.Sc. Medical Imaging Technology/Radiography (3 Years and I Year Internship)/ Science graduates with Two-year Diploma in Radiography/Science graduates with CRA/PG Diploma in Radiology and Imaging Technology awarded by any recognised University.

M.Sc. (RENAL SCIENCES & DIALYSIS TECHNOLOGY) DEGREE COURSE
(Under CBCS)

INTRODUCTION:

Faculty of Allied Health Sciences of Sri Ramachandra Institute of Higher Education & Research (Deemed to be University) offers a two year M.Sc. (Renal Sciences and Dialysis Technology) Degree course. This course was introduced in the year 2006-07.

There is a need at the national level for graduates with high level of knowledge and practical skill in all areas of renal sciences and dialysis management.

The programme is designed to provide a challenging and innovative postgraduate curriculum which equips students with higher levels of knowledge, competence and attitudes appropriate to the effective and empathetic practice of renal sciences.

Awareness and understanding of professional responsibilities including the delivery of the highest possible standard of clinical care.

OBJECTIVES:

- To understand the principles of renal dialysis. Emphasis is placed on the procedure for the performance of renal dialysis includes the technical aspects of preparing, operating, monitoring and maintaining dialysis equipment. Management of dialysis equipment, which includes equipment evaluation, acceptance testing, installations, planned maintenance, calibration, repair, modifications and inventory management.
- To work within a multidisciplinary team, both in the hospital and within the community, and have a vital role in communicating with the nephrology patients' needs.
- To Initiate, promote and conduct research in renal care and disseminate the results.
- To increase the awareness and understanding of professional responsibilities including the delivery of the highest possible standard of clinical care.
- To prepare the students for continuation into an appropriate Ph.D. program if desired.

JOB OPPORTUNITIES:

On successful completion of the course, the students will have a wide range of career opportunities in the field of renal sciences and dialysis technology as Transplant Co-ordinator, Haemodialysis manager, Peritoneal dialysis manager, Lecturer, Research scholar, Clinical and project administrator.

ELIGIBILITY:

(a) Candidates should possess MBBS/BDS/B.V.Sc./ B.Sc. (Allied Health Sciences) (3 Years and I Year Internship)/ B.Sc. (Nursing), B.Sc. Trauma Care Management Degree awarded by any recognised University.

M.Sc. (UROLOGY TECHNOLOGY) DEGREE PROGRAM

(Under CBCS)

INTRODUCTION:

Faculty of Allied Health Sciences, a constituent college of Sri Ramachandra Institute of Higher Education & Research (Deemed to be University) offers a two year M.Sc. Urology Technology degree Program. This course is introduced in the year 2018. Urology Technologists are well trained in procedures related to a wide spectrum of genitor-urinary disorders and they assist the urologists in the areas of operation theater, nephrology. Training includes orientation in transplant co-ordination registry and patient counseling. This program is designed to provide knowledge and update the technical skills required to undertake clinical and research work in the field of urology.

OBJECTIVE:

1. To train graduates in basic scientific principles of modern Urology and in the application of these principles to their Professional practice.
2. To incorporate in depth knowledge to B.Sc. students in day to day management of urological diseases.
3. To make a good physician assistant to a practice urologist in managing their OPD.
4. To Nurture, motivate the students in research programs individual in the line of urology programs, new intervention and demands.
5. To emphasize the importance of subspecialty development and working knowledge of nephrology related disease.
6. To involve in renal transplantation program and to be a coordinator.

JOB OPPORTUNITIES:-

On successful completion of the course, the students will have a wide range of career opportunities in the following field of Urology as Teaching Faculty , Physician Assistant, Renal Transplant Co-ordinator, Senior Technologist for Endourology OT, Manager in various Endourology instruments manufacturing companies.

ELIGIBILITY:-

Candidates should pass B.Sc. Allied Health Sciences(3 Years and I Year Internship) / B.Sc. Nursing awarded by any recognized university.

M.Sc. (HUMAN GENETICS) DEGREE COURSE
(Under CBCS)

INTRODUCTION:

Genetics has emerged as the dominant force in biology, medicine, and research during the past century and its power and utility have accelerated in recent years. The dominance of genetics stems from its central importance in explaining the most basic mysteries of life and its unsurpassed methods of analysis that allow one to elucidate function and mechanisms in virtually every area of biology.

SALIENT FEATURES:

The Department of Human Genetics in the Deemed University offers programmes and research at both the masters and doctoral levels, aiming at providing students with a comprehensive view of the wide field of modern Human Genetics. The M.Sc. (Human Genetics) Degree program is unique that it places emphasis on Human Genetics, while providing strong background in all aspects of genetics.

Training in Human Genetics the Deemed University encompasses the full spectrum of genetics from the molecular to the population level, with emphasis towards Cytogenetics, Molecular Genetics, Prenatal Diagnosis, Immunogenetics, Radiation Genetics, Cancer Biology, Pharmacogenetics with Biomathematics, Cell biology, Biochemistry and Biophysics to strengthen the fundamentals.

DEPARTMENT OF HUMAN GENETICS:

The Department of Human Genetics was established in 1998. The various state-of-the-art facilities in the Department include well equipped Tissue culture Laboratories, Hybridoma Lab, Cytogenetic laboratory (Image Analysis system), Molecular Genetics laboratory (PCR, Gel Documentation system), ELISA readers, Low pressure chromatography system, Fluorescence microscope, Central Animal Facility etc. The Department is involved in three different activities viz., academics, diagnostics and research. The department has been approved by the Government of Tamil Nadu to carry out genetic studies & prenatal diagnosis using biochemical, cytogenetic and molecular methods. Atomic Energy Regulatory Board (AERB) has accredited the Biodosimetry lab of the Department of Human Genetics for assessment of personnel radiation exposure and related studies.

DOCTORAL PROGRAM:

Research is conducted in a wide range of sub-disciplines in genetics, as well as in numerous related areas of the biological and biomedical sciences. The key research areas of the Genetics Department is optimizing cancer treatment, biodosimetry, carcinogenesis prostate and leukaemia, monoclonal antibodies production for cancer detection, understanding the molecular mechanism(s) of diabetes, cancer and HLA typing. The research activities of the department are funded by various agencies like Atomic Energy Regulatory Board (AERB), Council for Scientific and Industrial Research (CSIR), Defence Research Development Organisation (DRDO) and Diabetics Research Centre (DRC).

PLACEMENT SERVICES:

In the campus, job placement service is open throughout the year. The last 14 batches of students of this course have either opted to take up higher education (Ph.D. programs) in national and International Institutes and others have found placements in Universities, Research and Diagnostic Laboratories, Hospitals, Genetic Counselling Clinics, in Vitro Fertilization Centres and R & D divisions of reputed Pharmaceutical companies.

ELIGIBILITY:

(a) The Candidates should possess B.Sc. Degree in the branch of Biology/Life Sciences/ Agriculture/Biotechnology/Biochemistry/Botany/Genetics/Microbiology/Zoology/Allied Health Sciences/B. Pharm./B.Sc. (Biomedical Sciences)/B.Sc. (Emergency & Trauma Care Technology) awarded by any recognised University. Candidates with M.B.B.S./B.D.S./ B.Tech. (Biotechnology) and B.V.Sc. Degree from a recognised University are also eligible.

M.Sc. (BIOTECHNOLOGY) DEGREE COURSE
(Under CBCS)

INTRODUCTION:

Biotechnology is defined as the use of natural or genetically modified biological entities or their products for the benefit of all forms of life. This branch of applied science is interdisciplinary drawing its strength from a plethora of basic sciences such as chemistry, physics, mathematics, biochemistry, microbiology, plant and animal biology, immunology, molecular biology, environmental sciences and many others. In fact, the use of molecular biology tools and bioinformatics by a scientist in any area of their study be it medicine, dentistry, physical, chemical, environmental or life sciences is described as a biotechnological application. Biotechnology therefore offers more excitement to the discovery of nature and endeavours to lift science into realms of professional excellence.

SALIENT FEATURES:

The postgraduate degree program is offered by the Department of Biotechnology. The duration of M.Sc. (Biotechnology) Degree Course is of two academic years comprising four semesters which includes project work / dissertation to be submitted under the guidance of a faculty member of the department of Biotechnology. Fourteen different subjects and a dissertation carried out with an independent project are offered. Each paper carries a theory and a practical component.

The department provides access to multimedia presentations and internet based computers for seminars, paper presentations and workshops. Opportunities to participate and present their research at national and international symposia are available to motivated students. All these help our students to become confident and 'employable' in any Biotechnology industry be it teaching, research or production company.

PRACTICAL TRAINING:

The rigorous curriculum and practical component for each paper along with an independent project are important features that make the student competent in biotechnology. Over 280 hours of lab component in each semester is imparted to the students to help them become independent scientists. Two independent PG teaching Labs, well equipped with required instruments and a research lab are important assets in our individualized training Program.

Apart from our own faculty, students receive lectures and practical training from other departments such as Human Genetics, Pathology, Blood Bank, Microbiology, Dental College, College of Pharmacy and other outside experts. This aspect of our training has attracted students who are seriously inclined to take up higher studies or research positions in biotechnology companies / Institutes. These students are also equipped to compete in national level selection examinations such as GATE, CSIR-UGC NET, JNCASR, ICMR entrance or internationally (GRE/TOEFL).

Students completing the course find attractive opportunities in research positions, teaching, bioinformatics companies, medical research groups, diagnostic companies, biotechnology companies, pharmaceutical companies, environmental groups and many others.

ELIGIBILITY:

(a) Candidates should possess:

(i) B.Sc. in Life Sciences (Botany, Zoology, Integrated Life Science, Biochemistry, Microbiology, Biotechnology and Nutrition)

(ii) B.Sc. in Physical Sciences including Mathematics and Computer Science

(iii) Bachelor of Pharmacy, B.Sc. (Allied Health Sciences)/B.Sc. (Emergency & Trauma Care Technology)

(iv) M.B.B.S./B.D.S./B.V.Sc.

(v) B.P.T./B.Sc. (Nursing)/B.A.S.L.P./B.S.L.H.S.

(vi) B.Sc. (Human Genetics)/B.Sc. (Biomedical Sciences)

M.Sc. (MEDICAL BIOINFORMATICS) DEGREE COURSE
(Under CBCS)

INTRODUCTION:

Bioinformatics is a scientific discipline that applies computing science / information technology to help understand biological processes. It combines computer science with molecular biology and other related subjects using the principles and methods of mathematics, statistics and other medical specialities. Computers are used to gather, store, analyse and integrate biological and genomic information which can then be applied to gene-based drug discovery, development and other relevant areas.

Recent years have seen an explosive growth in biological genomic data. It can also be managed and stored for various purposes such as medical, pharmaceutical, agriculture, etc. For the student who thrills at being on the cutting edge of science, with the skills to excel in two different worlds, bioinformatics can offer an exciting and rewarding career.

SALIENT FEATURES:

The Department of Bioinformatics in the Deemed University offers a Two Year M.Sc. (Medical Bioinformatics) Degree Course under credit system. The major objective of M.Sc. (Medical Bioinformatics) Degree program is to train the students in the ever burgeoning field of bioinformatics by exposing them to the concepts and various methods of computing, genomics, proteomics and drug discovery. These students will be in a position to fill the demand created for addressing the need for human genomic studies and diseases. The course consists of lectures, practical classes, educational visits and project work. Our multi-disciplinary approach will nurture creativity and visualization of the students, develop innovation and inculcate the habit of continuous learning in them.

The Department of Bioinformatics is provided with state-of-the-art facilities which include IBM servers and 50 PCs with specific softwares used in Bioinformatics, wet laboratory with sophisticated equipments and library provided with the latest international text books, e-books, journals and magazines on bioinformatics.

ELIGIBILITY:

(a) Candidates should possess Bachelor's degree (Engineering - Biomedical, Electronics & Communication and Information Technology/Life Sciences/Medical Sciences/Dental/Pharmaceutics/ Allied Health Sciences) having Chemistry/Mathematical/Physical Sciences/Botany/Zoology/ Biochemistry/Molecular Biology/Biotechnology/Bioinformatics/Medical Informatics/Computer Sciences/Pharmacology/Pharmacy/Veterinary and Fisheries and other relevant/equivalent qualification in the respective areas are eligible.

M.Sc. (CLINICAL NUTRITION) DEGREE COURSE
(Under CBCS)

INTRODUCTION:

With medical nutrition therapy gaining popularity and realising its importance, Department of Nutrition and Dietetics was started in the year 1988 and it was rechristened in 1995 as the Department of Clinical Nutrition.

The Department offers a two year Master's Degree Program in Clinical Nutrition, designed to enhance the skills of those who wish to expand their understanding of human and medical nutrition and develop critical evaluation skills through integration of nutrition and management research. The programme enables students to get hands-on-training in hospital, clinical and community nutrition in close association with clinicians.

OBJECTIVES:

Nutrition and nutritional care have gained wide clinical and scientific interest during the past decades. The increasing knowledge of metabolic disturbances and nutritional assessment in chronic and acute diseases has stimulated rapid advances in design, development and clinical application of nutritional support. The aims of M.Sc. (Clinical Nutrition) course are to provide the rapid diffusion of knowledge and its application in the field of Clinical Nutrition and Metabolism.

The course will empower the professional seeking to meet increasing patient demand by incorporating practical nutrition applications, including enteral and parenteral nutrition support techniques, into existing preventive options. The program offers rich clinical and didactic instruction and field experience.

THE ACTIVITIES OF THE DEPARTMENT:

Academic: The department is actively involved in imparting nutrition knowledge to various medical and paramedical personnel.

Research: The potential for research and documentation in this field is very high and the department's endeavour is to engage itself in documentation of management modalities and delineate inter-relationship between Indian Dietaries and health and disease.

Counselling: The Primary focus of the department is the screening, assessment and counselling of all patients admitted in the hospital. The staff closely coordinates with the diet kitchen to present the right kind of diet for their patients.

Diet Kitchen: The diet kitchen provides one of the best food service facilities for the largest multi-speciality tertiary care referral centre falling in line with the medical nutrition therapy advised.

Continuing Nutrition Education Programmes are an integral part of the almanac. Such programmes give an opportunity to get acquainted with the latest advancements in the field of nutrition and dietetics.

HIGHLIGHTS OF THIS COURSE:

- Credit Based Semester System with 96 credits.
- Specialisations in the field of interest
- Clinical Postings, Hands-on-training
- Advanced Medical Nutrition therapy
- Sports Nutrition Interaction with all medical and paramedical personnel involved in patient care
- Clinical Case Discussions, Journal clubs & Seminars
- Dissertation.

CAREER OPTIONS:

This course equips the students with a sound clinical knowledge and excellent counselling skills in Clinical Nutrition field. On completion of this course, the following career options are available:-

i. **Dietitian/nutritionist**: At hospitals, nursing homes, fitness centers, corporate companies, food industries, hotels and restaurants.

ii. **Faculty**: With an interest in teaching, a candidate may opt to work as faculty for teaching in Colleges and Universities, Nursing Schools and in teaching hospitals.

iii. **Research & Development Areas**: As research assistant in research institution.

2) ELIGIBILITY:

Candidates must possess B.Sc. Nutrition and Dietetics/B.Sc. Clinical Nutrition/B.Sc. Nutrition, Food Service Management & Dietetics/PG Diploma in Nutrition & Dietetics/PG Diploma in Clinical Nutrition awarded by any recognised University.

M.Sc. (TRAUMA CARE MANAGEMENT) DEGREE COURSE
(Under CBCS)

INTRODUCTION:

For the first time in India, course including one year internship leading to B.Sc. Emergency and Trauma Care Technology has been introduced in our Deemed University. In order to provide vertical mobility and these graduates the Master's degree is now offered. This is a two year course.

Emergency and Trauma Care Technologies are members of the emergency medical care team who use their knowledge and skills to provide basic and advanced life support to seriously ill or injured patients before these patients reach the hospital. They are involved in patient rescue and enable their safe transport by ambulance to appropriate medical centre.

ELIGIBILITY:

Candidates should possess B.Sc. Emergency and Trauma Care Technology of this Deemed University or of any other recognised University.

M.Sc. (PERFUSION TECHNOLOGY) DEGREE COURSE
(Under CBCS)

INTRODUCTION:

Faculty of Allied Health Sciences, a constituent college of Sri Ramachandra Institute of Higher Education & Research (Deemed to be University) offers a two year M.Sc (PERFUSION TECHNOLOGY) Degree course. This course is introduced in the year 2017.Perfusionists are vital members of surgical and critical care teams.They monitor circulatory and metabolic parameters such as blood pressure, heart rate, respiratory rate and blood gases. They also monitor blood coagulation factors and operate machines that conserve blood and blood products. There is a need at the national level for Post graduates with high level of knowledge and practical skill in all areas of Cardiovascular Perfusion . The programme is designed to provide knowledge and update the technical skills required to undertake clinical and research work in the field of Cardiovascular Perfusion**.**

OBJECTIVES:

„ To train graduates in basic scientific principles of modern cardiovascular sciences and in the application of these principles to their professional practice.

„ To enhance the scientific skills of clinicians and to provide non-clinical graduates with insight into clinical problems that will allow them to work along with clinicians in clinical research projects.

„ To provide training in the field of extracorporeal circulation and also with life supporting systems like ECMO, IABP and VAD

,,To enhance their knowledge required for organ transplantations- Especially Heart and lung transplantation

,, To guide them to upgrade with the day -to- day developments in the field of cardiovascular perfusion

„ To encourage them to attend the various conferences and seminars relevant to cardiovascular perfusion

JOB OPPORTUNITIES:

On successful completion of the course, the students will have a wide range of career opportunities in the field of Cardiovascular Perfusion as Chief Perfusionist, ECMO Specialist, Transplant Co-ordinator Lecturer, Research scholar, Clinical Manager, Clinical Specialst in Ventricular Assist Devices

ELIGIBILITY:

(a) Candidates should possess MBBS/B.Sc.Allied Health Sciences (3 Years and I Year Internship)with Anaesthesia Technology/ Cardiac care Technology/Respiratory Technology/Perfusion Technology awarded by any recognized University.

M.Sc. (APPLIED CHILD DEVELOPMENT) DEGREE COURSE
(Under CBCS)

Department of Paediatrics SRMC &RI for a well organized child development unit " Karthikeyan Child Development Unit" (KCDU), that deals with developmental and behavioural Paediatrics problems in children.

SCOPE:

The major aim of this program is to impart knowledge in the areas of Applied Child Development for those with Para medical background, for a change in the emphasis towards " Early Detection and intervention of Developmental Delay" rather than provision of rehabilitation services alone . In this program the candidates are exposed not only to the theoretical aspects of Applied Child Development program but also given practical oriented training in normal and abnormal development of children. They are also trained in doing anthropometry in these children. M.Sc Applied Child Development program is one of the few courses of its kind in India designed to create qualified trainers who can effectively deal with all areas of early child growth and development and education including newborn follow up, early detection of developmental delay and early stimulation therapy. It is a job oriented professional course and hence successful candidates can support available Paediatric and neonatal services in growth and neuro – developmental follow up, special preschool services. These services are often lacking in a busy hospital set up and hence such units will definitely be a supportive base to the health sector.

The student completing Applied Child Development Postgraduate program will be eligible to pursue further studies in child development research as PhD research scholars or may find employment opportunities in a number of health care settings and teaching institutions on obtaining lectureship., The Department of Paediatrics and Karthikeyan Child Development Unit at Sri Ramachandra Institute of Higher Education and Research, Deemed to be University, fosters an all round development of the student passing out from M.Sc Applied Child Development Program. Therefore, it is befitting that one has chosen to join this program.

ELIGIBILITY:

Candidates for admission to M.Sc Applied Child Development Degree program in Sri Ramachandra Deemed University shall be required to possess 55% Pass or B+ grade in undergraduate qualifying examination.

a) He/ She should have passed the qualifying examination in:
   - I. B.A or B.Sc Psychology or
   - II. B.Sc or M.Sc Home science/ B.Sc Dietetics & Nutrition or
   - III. B.Ed in special education or
   - IV. B.Sc Optometry / B.Sc Biotechnology or
   - V. B.Sc (Allied Health Sciences); B.Sc (Emergency & Trauma Care Technology) or
   - VI. BPT;BOT; B.Sc (Nursing) ;B,Sc (Nursing Post Basic); BASLP/BSLHS or
   - VII. B.Sc (Human Genetics);B,Sc (Biomedical Science) Degree of any recognized University.

M.Sc. (BIOMEDICAL SCIENCES) DEGREE PROGRAM
(under CBCS)

INTRODUCTION:

The Master's programme in Biomedical Sciences provides a unique combination of fundamental research and clinical application, with a special focus on multidisciplinary aspect such as biochemical, molecular and patho-physiological mechanism of diseases. Investigating and understanding the diseases give the skill and knowledge to work towards discovery and development of preventive/ therapeutic drugs. There is an increasing prevalence of non-communicable diseases as a result of lifestyle changes and urbanization in India. Infectious diseases are also still persisting as major health problems in Indian population. These are the challenges that are to be tackled in the new millennium, so there is a need to understand the pathogenesis and to develop the new markers and diagnostic protocols with respect to the relevant field. Biomedical Scientist requirement is important because they are expected to bridge the gap between biomedical research, diagnostics and clinical applications.

OBJECTIVES:

- To improve the skills and critical thinking in the field of clinical research
- To understand the pathogenesis and to develop the new markers and diagnostic protocols with respect to the relevant field.

JOB OPPURTUNITIES:

On successful completion of the course, the Biomedical Science graduates could contribute to the Private sector or National healthcare laboratories

- Testing and screening of life style disorders (**laboratory**)
- Investigating and understanding the disease mechanisms (**Research fellow**)
- Working towards discovery and development of treatments, which could be preventive (vaccines) and/or therapeutic (drugs and medicines **- R & D**)
- Working in academic institutions (**Higher education)**

ELIGIBILITY:

- A candidate who seeks admission to M.Sc. Biomedical Sciences Degree program should have passed the MBBS/BDS/B.Sc.(Allied Health Sciences) / Biology/ Biochemistry/ Biomedical Sciences/ Biotechnology/ Clinical Nutrition/ Botany/Genetics/ Microbiology/ Life Sciences/ Zoology/B. Tech. (Biotechnology, Genetic Engineering) degree of any university recognized by the UGC.

M.OPTOM. (MASTER OF OPTOMETRY)

(Under CBCS)

The profession of Optometry is expanding widely and Master of Optometry (M.OPTOM) is a unique career progression program which equips one with all the theoretical and practical knowledge needed to practice as a specialized optometrist. This course enhances knowledge in vision science, clinical diagnosis and optometric management practices, training them in various areas of optometry. The course also offers exposure to conduct research in the field of vision sciences

OBJECTIVES OF THE PROGRAM
➢ Greater exposure to specialize in various specialty fields like low vision, contact lens, Binocular Vision, Low vision rehabilitation, Neuro-optometric rehabilitation ➢ To advance knowledge in functional vision assessment ➢ To provide advanced management and problem based approach to challenging cases ➢ To provide community services ➢ To design and conduct independent research

HIGHLIGHTS OF THE PROGRAM
➢ Well Trained faculties ➢ Optometry clinics with advanced diagnostic equipments ➢ Student friendly environment ➢ Library and Internet facilities ➢ Newer avenues to conduct research

COURSE DETAILS	
ELIGIBILITY	Should have passed in B.Optom or its equivalent of any University recognized by the UGC.
DURATION	2 years full time (Semester Pattern)

M.P.H. (OCCUPATIONAL AND ENVIRONMENTAL HEALTH) DEGREE COURSE
(Under CBCS)

INTRODUCTION:

The Masters in Public Health in Occupational and Environmental Health is aimed at training students to become efficient and effective Occupational and Environmental Health professionals with leadership qualities, knowledge and skills. The focus of the programme is to ensure that student's competences in understanding of issues related to occupational and environmental health prevailing at different work and environmental settings are enhanced and that these skills are put into practice in diverse situations in the field. The course also aims at enhancing the research and analytical skills to an advanced level that would facilitate students to design and conduct quality research studies in the area of occupational and environmental health. The programme is hence designed to give an intensive training to enable students to identify, define and measure different parameters of occupational and environmental health, collect relevant data, effectively analyse data using appropriate statistical methods, have critical thinking, scientifically interpret information, describe the interrelationships of scientific, economic political, social, ethical, cultural and personal interaction with issues and concerns of occupational and environment health.

SCOPE:

The graduates of this course will be in a position to fill the demand for occupational and environmental health professionals in both Professional organizations and Academic organizations under public and private sectors (for profit, non-profit organizations, research institutions, academic institutions, consultancy services, international organizations, etc,)

ELIGIBILITY FOR ADMISSION:

A candidate desiring to join the 2- year degree program leading to the Master in Public Health (MPH) Degree Course in Occupational and Environmental Health should have passed the MBBS/ BDS/B.Tech(Chemical Engineering)/BE(Civil or Public Health Eng.)/B.Sc.(Chemistry, Zoology, Botany, Biotechnology and Environmental Sciences or any other life science programs) or equivalent degree(Engineering/Science/Health Science)of any institution/ University recognized by the AICTE/UGC.

NUMBER OF SEATS:

Total number of seats is 10 per academic year. Of the total number of 10 seats for the MPH Degree course, 3 seats are earmarked for sponsored candidates from Industry/Government. All the candidates including the sponsored candidates will have to appear for the Interview. Separate merit list will be prepared for the directly applied candidates and the sponsored candidates and the selection would be made on the order of merit.

M.Sc. (CLINICAL EMBRYOLOGY) DEGREE COURSE

INTRODUCTION:

Reproductive medicine is a dynamic and challenging area of clinical medicine. Despite the concern of our growing population, the number of infertile patients is on the rise globally and the demand for practitioners in this area is also on the rise. Unlike most of the other fields, clinical embryology is distinctive because majority of the work is laboratory driven. Unfortunately the number of universities offering a structured masters course in such a dynamic area of medicine is very minimal at both the national and international level. Hence there is acute need to develop such a programme to impart students with the academic and practical knowledge necessary to practice this exciting field of medicine.

Sri Ramachandra Medical College & Research Institute (Deemed to be University) has an active ART programme running successfully for more than a decade and the first Deemed University to start the M.Ch Reproductive Medicine & Surgery course recognized by the MCI in India, and it is a logical extension of the department to start a master's programme in clinical embryology to train students in assisted reproductive technologies.

On completing the course, students will be able to find suitable opportunities in ART clinics, research laboratories, teaching institutions and pharmaceutical industries. The syllabus formulated for the course by the Deemed university is in accordance with European and American societies of reproductive medicine and graduates on completion of this course will be at par with national and international standards in clinical embryology.

ELIGIBILITY

(a) Candidates should possess recognized MBBS/BDS Degree examination and have completed Internship and have registered his/ her name with anyone of the State Medical/Dental Council. Candidates possessing higher qualifications i.e. DGO/ MD (Obstetrics & Gynaecology)/ MS (Obstetircs & Gynaecology) are also eligible.

Please ensure whether the following certificates (photocopy and other specified items) have been enclosed along with the Application Form duly filled-in :-

i) MBBS/BDS Degree Course Statement of Marks pertaining from First year to Final year;

ii) Consolidated Statement of Marks;

iii) Attempt Certificate (First year to Final year);

iv) MBBS/BDS Provisional Pass Certificate or Degree Certificate;

v) Internship Certificate;

vi) Birth Certificate;

vii) State Medical/Dental Council's Permanent Registration Certificate;

viii) Transfer Certificate/ Migration Certificate/HSC Mark Statement; and

ix) Conduct Certificate issued by the Head of the Institution last studied.

M. Sc. CLINICAL RESEARCH

(Under Choice Based Credit System)

INTRODUCTION

- This is a professional Master's degree programme in Clinical Research which would provide a platform for eligible candidates to acquire advanced knowledge and skills in various aspects of clinical research, required in teaching, healthcare, Research institutions, Pharma/Biotech industries and R & D/Clinical Research Organisations.

- The program has opened up new horizon for employment for a large number of trained professionals in India and abroad since New drugs discovery / Clinical Research / Clinical trials are booming world over and there is growing demand for Clinical Research Professionals.

SUMMARY OF THE PROGRAM

- M.Sc. Clinical Research program is a two years FULL TIME program under the Choice Based Credit System with four semesters. Each year is of two semesters with 27 credits each in semesters I to III and 19 credits in semester IV, totaling to 100 credits in 2 years.
- The program comprises of a total of 30 courses including 18 theory courses, 10 practical courses, and one internship course in a clinical trial setting.
- Elective course(s) option available for selected students as per their aptitude.

ELIGIBILITY FOR ADMISSION

A candidate who seeks admission to M.Sc. Clinical Research Degree Program should have passed the B.Pharm/Pharm.D/MBBS/BDS/B.Sc. Biomedical Sciences/ Genetics /Biotechnology/Allied Health Sciences/Clinical Research/ or any other Life Sciences degrees/ B.Tech (Biotechnology/Genetic Engineering) / B.Sc (Nursing) Degree of any University recognized by the UGC with a minimum of 55% marks in aggregate. For SC/ST/OBC category, minimum of 50% marks in aggregate is essential.

M.Sc. MEDICAL PSYCHOLOGY DEGREE PROGRAM

(Under Choice Based Credit System)

Medical Psychology is a psychology subspecialty that focuses on how biological, psychological and social factors influence health, wellness and illness. The medical psychologist will work in the clinical setting along with other medical professionals. Their goal is to promote overall wellness and to help patients cope with factors that can affect their short- and long-term health. They also promote public health and community health.

Master of Science (Medical Psychology) involves the application of theories in understanding various diseases that may have underlying psychological / psychopathological factors. The structure of the program incorporates:

- Theory & practical classes,
- Case studies,
- Counseling sessions,
- Record submissions ; and
- Dissertation related to field of medical psychology.

PROGRAM SUMMARY

1. Master of Science (Medical Psychology) degree program is a postgraduate degree program offered under CBCS.
2. It is a 2 year program (four semesters) of study carrying a total **credit of 100** under the Faculty of Allied Health Sciences.
3. Students register for core theory (CT), core lab (CL), electives and ability enhancement courses.
4. The course includes clinical rotation, which the candidates would undergo during their entire four semesters
5. The program offers a research project for each student.
6. Evaluation is based on the UGC recommended 10-point grading system. Grades and classes will be declared as per Deemed to be University rules.

ELIGIBILITY FOR ADMISSION

- A candidate who seeks admission for M.Sc. (Medical Psychology) shall be required to hold a Bachelor's Degree (B.A or B.Sc.) in Psychology or any other Life Science/ Health Science Degrees of any University recognized by the UGC in regular mode with a minimum of 55% marks. For SC/ST/OBC category, a minimum of 50% marks in aggregate is essential.
- Selection is based on performance in the interview

DURATION OF THE PROGRAM

- The duration of the Program shall be 2 (two) academic years comprising 4 semesters ((Regular **FULL-TIME** Mode).

M.Sc. CLINICAL PSYCHOLOGY DEGREE PROGRAM
(Under Choice Based Credit System)

The Department of Clinical Psychology, Sri Ramachandra Institute of Higher Education and Research (SRIHER) offers a Masters Programme in Clinical Psychology from the academic year 2019-20.

Clinical psychology is a subspecialty of Psychology with the objective of diagnosing and providing psychological care for individuals with mental disorders and their families. “The field of Clinical Psychology integrates science, theory, and practice to understand, predict, and alleviate maladjustment, disability, and discomfort as well as to promote human adaptation, adjustment, and personal development. Clinical Psychology focuses on the intellectual, emotional, biological, social, and behavioral aspects of human functioning across the life span, in varying cultures, and at all socioeconomic levels” (American Psychological Association, Division 12, 2012). In India the field of Clinical Psychology is receiving interest for the past few decades and with its growing demand, at present, training in (M.Phil) Clinical Psychology is being offered in more than ten Rehabilitation Council of India recognized Institutions, among which Sri Ramachandra Institute of Higher Education and Research (DU) was the first to offer the course in the state of Tamil Nadu.

Master of Science (Clinical Psychology) is a Postgraduate program that encompasses both theory and practicals, with opportunity to conduct research. The structure of the program includes theory & practical classes, case studies, counseling sessions, record submissions and dissertation, related to the field of Clinical Psychology.

SCOPE OF THE PROGRAM:

- Wide range of career options in various hospitals and mental health and de-addiction centers.
- A general hospital based advance level Post graduate program, aimed at implementing the theories to real time mental health needs, of a wide range of people suffering from minor to major Psychiatric disorders.

PROGRAM SUMMARY

1. Master of Science (Clinical Psychology) degree program is a postgraduate degree program offered under CBCS.
2. It is a 2 year program (four semesters) carrying a total of 90 credits under the Faculty of Allied Health Sciences.
3. Students register for core theory (CT), core lab (CL), electives and ability enhancement courses.

4. The course includes clinical rotation which the candidates would undergo during their entire four semesters
5. The program offers a research project for each student.
6. Evaluation is based on the UGC recommended 10-point grading system. Grades and classes will be declared as per Deemed University rules.

ELIGIBILITY FOR ADMISSION

- A candidate who seeks admission for M.Sc. (Clinical Psychology) shall be required to hold a Bachelor's Degree (B.A or B.Sc.) in Psychology or any other Life Science/ Health Science Degrees of any University recognized by the UGC in regular mode with a minimum of 55% marks. For SC/ST/OBC category, a minimum of 50% marks in aggregate is essential.
- Selection is based on performance in the interview

DURATION OF THE PROGRAM

The duration of M.Sc. Clinical Psychology Degree Program shall be two academic years comprising 4 semesters and **FULL-TIME** Mode of study.

M.Sc. APPLIED & REGULATORY TOXICOLOGY

INTRODUCTION:

The Master's program in APPLIED & REGULATORY TOXICOLOGY is a unique combination of Toxicological principles and its regulatory perspective in product safety evaluation. The program provides a broad, modern training in theoretical and practical aspects of fundamental and applied toxicology with interdisciplinary approach. This advanced graduate degree has also been developed to meet the needs of employers like Toxicology Research industry, academia and regulatory agencies.

OBJECTIVES:

- To understand Toxicological principles and its regulatory perspective in product safety evaluation
- To create skilled scientific manpower for preclinical research industry, academia and regulatory bodies with appropriate knowledge and experience.
- To provide professional qualification in regulatory toxicology domain

JOB OPPRUTNIUTY:

On successful completion of course, the graduates can join in toxicological testing/ product quality testing and Research at

- Pharmaceutical Research & Development,
- Agrochemicals / Pesticide industry
- Industrial Chemical Industry,
- Medical device industry,
- Neutraceuticals, food and feed additives ,
- Contract Research Organisation (CRO's)
- Knowledge processing outsourcing (KPO's)
- Academia - Universities & National Research centres,
- Regulatory Consulting agencies,
- Governmental and International Regulatory Bodies.
- Higher studies/research e.g. PhD

ELIGIBLITY:

A candidate who seeks admission to M.Sc. APPLIED & REGULATORY TOXICOLOGY Degree program should have passed the MBBS/ BDS/ BVSc./ B.Pharm/ Pham D./ B. Sc. Agriculture, Food Science, Fishery Science, Entomology, Clinical Research, Allied Health Sciences/ Biology/Biochemistry/ Biomedical Sciences/ Biotechnology/ Botany/ Genetics/ Microbiology/ Life Sciences (Zoology/B.Tech. Biotechnology, Bioinformatics, Environmental Science, Biomedical Engineering) degree of any university recognized by UGC.

M.Sc. CLINICAL IMMUNOLOGY

INTRODUCTION

M.Sc. Clinical Immunology is a unique patient oriented Allied Health Science Post Graduate program under the choice based credit system. The program duration is for two years by when the student will be exposed to the various disciplines in Immunology. This would comprise basic and molecular immunology, transplantations, haematology, applied laboratory immunological techniques, blood banking, microbiology, genetics, experimental immunology, tumor immunology as well as aspects of auto immune, allergic and immune deficiency diseases. In total the program would cover 21 courses.It is aimed at training students from basic sciences in the fast growing field of immunology, understanding the concept of immune responses in humans, basis for identification and prediction of disorders, research and diagnostics. Further, this program is designed to provide a thorough training in a particular subject area through formal lectures and or seminars with practical experience. The syllabus framed by the University for the program is designed to achieve an internationally accepted standard. The research project provides training in a particular area through original exploration and experimentation, culminating in the preparation of a dissertation that concludes the research undertaken. Thus the program imparts advanced theoretical and practical training in various clinical aspects of immunology.

OBJECTIVES:

Program Objectives:

- To understand fully the basis of fundamental Immunology in clinical practice.
- Familiarity in disciplines allied to immunology enabling better comprehension of the subject and providing a wider scope for application of the science.
- Mould the candidate towards investigative research.
- Provide the student a platform for expression of views as well as assess their learning and communicative capabilities
- Gain knowledge by observation of experimental tools and thereby its applicability
- Be able to understand the immunological process within the human body in relation to human diseases

JOB OPPORTUNITIES

1) Post doctoral training and additional education
2) Immunodiagnostic laboratories
3) Medicine and Health care sector
4) Research staff industry
5) Research staff academician
6) Faculty in teaching institutions
7) Faculty in research organizations
8) Science communications and publishing organizations
9) Faculty combined research training programs
10) Academic and research administration
11) Business and commercialization industry
12) Interdisciplinary research programs
13) Clinical trial programs
14) Clinical laboratories

ELIGIBILITY:

A candidate who seeks admission to M.Sc. CLINICAL IMMUNOLOGY Degree Program should have passed MBBS/BDS/BV.Sc. or B.Sc. [Allied Health Sciences/ Biology/ Biochemistry/ Biomedical Sciences/ Biotechnology/ Botany/ Emergency Trauma Care Technology/ Genetics/ Microbiology/ Life Sciences/ Zoology/ Agriculture / B. Tech. (Biotechnology, Genetic Engineering)/ degree of any University recognized as equivalent there to and recognized by the UGC in regular mode with a minimum of 55% marks. For SC/ST/OBC category, minimum of 50% marks in aggregate is essential.

M.Sc., (RESPIRATORY THERAPY) DEGREE PROGRAM
(Under CBCS)

INTRODUCTION:

Faculty of Allied Health Sciences of Sri Ramachandra Institute of Higher Education & Research introduces a two year M.Sc. (Respiratory Therapy) Degree course. This course is designed to train the students to meet the increasing demands of Respiratory Care Profession globally. This programme is designed to provide a challenging and innovative postgraduate curriculum which equips students with higher level of knowledge, competence appropriate to the effective practice of Respiratory Care.

OBJECTIVES:

- Aims students to develop didactic and research knowledge to advance their expertise in education, research, leadership and project management.
- State-of-art equipments, Simulation lab to provide advanced learning experience
- Enhances student ability to learn and perform in clinical settings at an advanced level
- To Enhance career options in Clinical set-up as independent & advanced RT Managers/Administrators in large hospitals

JOB OPPORTUNITIES:

On successful completion of the course, the students will have a wide range of career opportunities in the field of Respiratory Care Management as Teaching faculty, Clinical Instructors, Senior Respiratory Therapists/Technologists, Sleep Technologists, Application Specialists, Research scholar & work in pulmonary rehabilitation clinics

ELIGIBILITY:

Candidates should possess B.Sc. Allied Health Sciences in the speciality of Respiratory Care Technology or either equivalent B.Sc. Respiratory Therapy or Bachelor of Respiratory Therapy and Technology(3 Years and I Year Internship).

M.Sc. Mind-Body and Life style Science

Preamble

The Master of Science in Mind-Body and Life-style Science is a potential health care and research oriented program that deals with the organic connection between the mind and body and applying this insight to health and wellness. Lifestyle diseases (obesity, diabetes, arthritis, smoking, alcohol-related diseases) constitute the biggest epidemic facing the country. Indian Society of Lifestyle Medicine has been just formed in Aug/ Sep 2018. Life-style/ Health coaching likely to emerge as one of the growing demand fields in hospitals, industries, residential communities.

Scope: The scope of the program is to allow the graduates to develop a skill set that empowers and motivates individuals to take charge of their own health and sustain their well-being. Students will be trained in research-validated practices of counselling and behavioural modification. Certified health and wellness coaches will be proficient in assessing client needs, building rapport, and designing tailored strategies to best achieve and maintain clients' health and wellness goals.

Career opportunity: It provides a career opportunity as an individual / personalized health coaches, employee health and coaching, corporate health, wellness coaches in health centers, Medical Centers, community health centers and poly clinics, school health and wellness coaches, faculty in universities, life style coaches in life style clinics, research fellows, and health insurance.

Program outcomes: The M.Sc graduate in Mind-Body and Life-style Science will:

- Demonstrate understanding of the interplay between the mind and body and its impact on wellness and disease;
- Demonstrate ability to provide mind body interventions that promotes ;
- Design and implement an individualized patient-centred health and wellness care plan;
- Demonstrate skill to induce a sense of responsibility and accountability of their clients to be compliant with their wellness goals;

- Effectively communicate to clients that includes cultural awareness, empathy, active listening, appropriate use of language and that motivates the clients;
- Empower clients to set and accomplish health related behavioural change (goals, assess their progress);
- Apply the science of behaviour change in motivating individuals towards a health generating behaviour that is integrative and evidence based; and
- Demonstrate professional conduct and adhere to professional ethics and principles.

Eligibility: Bachelor's Degree in Health and allied sciences (MBBS, BDS, BPT, BOT, B Pharm , B.Sc. Nursing , B.Sc. Allied Health Sciences ,B.Sc. Psychology, B.ASLP, B.Sc. Clinical Nutrition, B.Sc. Sports & Exercise Sciences) & AYUSH or any other Degree equivalent thereto.

Program level: Post Graduate Master's program

Duration of the course: 2 years

M.Sc. Stem Cell and Regenerative Biology

(Under CBCS)

INTRODUCTION:

The Faculty of Clinical Research of Sri Ramachandra Institute of Higher Education and Research introduces a two-year M.Sc. (Stem Cell and Regenerative Biology) Degree program.

This interdisciplinary course is designed to meet the increasing demand in the fields of Stem Cells, Tissue Engineering and Regenerative Biology. The course provides a strong theoretical foundation in Molecular, Cellular and Developmental Biology together with extensive hands on training in laboratory techniques in Stem Cells, Scaffold Fabrication for 3D Cultures and Bio-analytical techniques. The course provides a unique perspective to students pursuing research–based career opportunities in this rapidly evolving field in academia, pharmaceutical and biomedical companies worldwide.

OBJECTIVES:

- To provide an up to date knowledge in Stem Cells and Regenerative Biology
- Ample practical exposure leading to advanced learning experience
- Excellent Research and Internship opportunities
- To mould students towards Independent Investigative Research
- Exposure to National and International Stem Cell Community and Symposia

SCOPE:

Following completion, graduates will be equipped with the theoretical and practical skills to pursue a career in Academic Institutions, R & D Institutes, Industry (e.g. Regenerative Medicine, Biotechnology, Pharma, Toxicology sectors), Patenting and Intellectual Property, Scientific writing and Policy Regulation; around the world.

ELIGIBILTY:

Candidate should have passed the MBBS / BDS / B.V.Sc. / B. Tech. (Biotechnology, Genetic Engineering) or B.Sc. or B.Sc. (Hons) [Allied Health Sciences/ Biology/ Biochemistry/ Biomedical Sciences/ Biotechnology/ Botany/ Genetics/ Microbiology/ Life Sciences/ Zoology/ Agriculture degree of Sri Ramachandra Institute of Higher Education and Research or of any other University recognized by the UGC in regular mode with a minimum of 55% marks or B+ Grade.

IN TAKE: 15 students per academic year.

FEE: Rs. 2,00,000/- per year.

Innovative Programs offered under Sri Ramachandra Faculty of Sports and Exercise Sciences

1. MASTER OF SPORTS PHYSIOTHERAPY - MPT (SPORTS) DEGREE PROGRAM

INTRODUCTION:

The Faculty of Sports & Exercises Sciences introduces a two-year MPT(Sports Physiotherapy) Degree programme. This interdisciplinary programme is designed to meet the increasing demands highly skilled sports physiotherapists in the country. The course provides a strong theoretical foundation in vital core and elective subjects together with extensive hands on training on and off the field of sports. The course provides a unique perspective to students who seek international standard, competency based curriculum to become a successful sports physiotherapist.

OBJECTIVES:

To produce sports physiotherapists skilled in the competencies framed by International Federation of Sports Physical Therapists (IFSPT) including

- Injury Prevention
- Acute intervention
- Rehabilitation
- Performance Enhancement
- Promotion of a Safe, Active Lifestyle
- Life-Long Learning
- Professionalism and Management
- Research Involvement
- Dissemination of Best Practice
- Extending Practice Through Innovation
- Promotion of Fair Play and Anti-Doping Practice

UNIQUE FEATURES

- First MPT programme in India with International curriculum in alignment with International Federation of Sports Physiotherapy
- First MPT programme in India to be offered in a modern blended mode with a mix of Face to Face and Online learning
- Collaboration with universities in UK and Australia
- Centre for Sports Science (CSS) in the universitythe only centre in India accredited by Asian Football Confederation (AFC) and International Cricket Council (ICC)
- CSS is the approved centre of excellence for SAI, Govt. of India and houses the Khelo India academies for Rowing, Weightlifting and Shooting. CSS is a recognized centre of excellence for Government of Tamilnadu (SDAT) and Kerala (DYSA)

- Students get to choose their area of interest (different sports offered as elective subjects)
- Clinical rotation for hands on Training at various sports academies attached to CSS and outside
- Opportunities to travel with teams

SCOPE:

Following completion, graduates will be equipped with the theoretical and practical skills to pursue a career with sports teams, government and private sports organisations, sports medicine centres, sports science academic institutions in India and around the world.

ELIGIBILTY:

Candidate should have passed the BPT from an University recognized by the UGC in regular mode with a minimum of 55% marks or B+ Grade.

INTAKE: 10 students per academic year.

FEE: Rs. 2,50,000/- (Rupees Two Lakhs Fifty Thousand per year)

2. M.Sc. SPORTS AND EXERCISE PSYCHOLOGY DEGREE PROGRAM

Introduction:

The M.Sc. Sports and Exercise Psychology program aims to equip graduates with skill setsto serve as high quality sports psychology professional in the sports industry. Students will be trained in evidence-based practices to demonstrate performance enhancement in competitive sports through sports psychology service delivery. Graduates from this program will be proficient in assessing athletes/client needs, designing appropriate strategies to best achieve sports culture and quality of life. This program is offered under the Faculty of Sports and Exercise Sciences.

UNIQUE FEATURES:

- Candidates will be trained at the Centre for Sports Science, SRIHER, a premier sports science centre in India that has collaboration with international universities including UK and Australia
- Centre for Sports Science (CSS) in the university the only centre in India accredited by Asian Football Confederation (AFC) and International Cricket Council (ICC)
- CSS is the approved centre of excellence for SAI, Govt. of India and houses the Khelo India academies for Rowing, Weightlifting and Shooting. CSS is a recognized centre of excellence for Government of Tamilnadu (SDAT) and Kerala (DYSA)
- Students will get exposure in different sports
- Clinical rotation for hands on Training at various sports academies attached to CSS and outside
- Opportunities to work and travel with teams

SCOPE:

Following completion, graduates will be equipped with the theoretical and practical skills to pursue a career with sports teams, government and private sports organisations, sports medicine centres, sports science academic institutions in India and around the world. They can pursue higher research studies to become sought after academicians and researchers.

Program Learning Outcomes:

The M.Sc. graduate in Sports and Exercise Psychology will

a) Develop competencies to functionally assess psychological concerns within sports & exercise setting
b) Provide evidence-based interventions towards performance enhancement and injury prevention
c) Independently pursue research within sports and exercise domain
d) Support athlete/client in injury rehabilitation context
e) Nurture quality of life and sports culture in the country
f) Demonstrate multi-cultural sensitivity in professional practice
g) Demonstrate professional conduct and adhere to professional ethics and principles

Eligibility for Admission:

Candidates holding undergraduate degree in Psychology, Sports & Exercise Science, Physical Education from any University recognized by the UGC in regular mode with a minimum of 50% marks in aggregate.

Duration of the Program:

The duration of M.Sc. Sports and Exercise Psychology Degree Program shall be two academic years comprising 4 semesters under CBCS – Full time mode of study. The minimum credits required for the M.Sc. SPORTS AND EXERCISE PSYCHOLOGY Degree program shall be 90.

Intake: 15 students per academic year

Fee: Rs. 2,00,000/- (Rupees Two Lakhs only per year)

INSTRUCTIONS TO THE CANDIDATES

1. ONLINE FILLING APPLICATION FORM AND ATTACHING SELF ATTESTED COPY OF CERTIFICATES:

(a) Application forms are available online only which should be filled in carefully by candidates, complete in all details and submitted online along with scanned copies of documents and passport size Photograph as attachments (listed in clause – 2 below) in this prospectus.

(b) The Registration fee of **Rs.1,000/-**(Rupees One thousand only) will not be refunded under any circumstances.

(c) Candidates **should attach only scanned copies of Self attested certificates** relating to qualification, age and community such as Mark sheet(s), qualification Degree Hall Ticket, Birth Certificate etc. **The original Mark Sheet(s) of the qualifying examination and other original documents have to be produced only at the time of counseling.**

(d) Application will not be accepted if incomplete or uploaded without attaching the relevant certificates and without paying the registration fee online

2. SELF ATTESTED CERTIFICATES TO BE ENCLOSED:

Please ensure whether the following scanned copies of your passport size photograph and self attested certificates have been attached along with the duly filled in online All India Entrance Examination Application Form:--

(i) Degree Examination Mark Statements (First year to Final year);

(ii) Provisional Pass Certificate/Degree Certificate;

(iii) In respect of the candidate who has appeared/to appear for Final year Degree examination, either photocopy of the last semester/year Mark Statement issued by the University concerned or a certificate from the Head of the Institution;

(iv) Transfer Certificate/Migration Certificate;

(v) Internship Completion Certificate, if applicable ;

3. INTERVIEW CALL LETTER:

(a) Interview Call Letter can be downloaded by all eligible candidates from the website one week prior to the Interview date.

(a) INTERVIEW CALL LETTER MUST BE PRODUCED AT THE TIME OF INTERVIEW WITHOUT FAIL. NO CANDIDATE SHALL BE ALLOWED TO ATTEND THE INTERVIEW WITHOUT THE CALL LETTER.

(c) Mere acceptance of a person as a candidate for Interview shall not confer on him/her any right/eligibility for admission. The name of the candidate who does not satisfy the prescribed eligibility criteria shall not be considered for admission.

(d) All candidates appearing for an interview shall be required to sign an attendance register to record and authenticate their presence.

(e) they should submit a photocopy of the mark statement of qualifying degree from first to final year on or before **21.09.2020** and also provisional certificate, if available.

4. INTERVIEW CENTRE:

The Interview will be conducted at **Sri Ramachandra Institute of Higher Education & Research (Deemed to be University),** Porur, Chennai - 600 116. The candidates have to appear for the Interview at their own expenses.

5. DATE OF INTERVIEW:

The Interview will be conducted on **17.09.2020 (Thursday) & 18.09.2020 (Friday)** at 10.00 a.m. The candidates are advised to be at the Interview Centre an hour before the commencement of the Interview.

6. MODE OF SELECTION:

(a) Selection will be made on the basis of the marks secured by the candidates in the Interview. Intimation letter will be sent to the candidates provisionally selected for admission.

(b) In case of candidates who secure the same marks in the Interview, ranking will be made based on their academic performance from First year to Final year in the qualifying examination Prescribed for admission.

(c) In case of their provisional selection for admission, they must produce Provisional Pass Certificate or Degree Certificate and other relevant documents required, at the time of counselling. Candidates who fail to produce the required documents, will not be considered for selection

(d) Results will be published in the Notice Board and also in the website: **www.sriramachandra.edu.in**

(e) Selected candidates will be intimated individually through e - mail.

7. IMPORTANT NOTE:

i. All admissions are subject to fulfillment of all the prescribed eligibility conditions by the candidate and production of All RELEVANT ORIGINAL CERTIFICATES at the time of counseling.

ii. If it is found either at the time of admission or at a later stage, that the candidate has given false information/forged certificates or concealed material information, his/her admission shall be cancelled and the student will be dismissed from the institution/faculty/college immediately.

iii. The Deemed to be University reserves the right to change the curriculum, course structure and the rules relating to admission, examinations, fee structure, refunds, etc.

iv. All disputes arising in the interpretation and implementation of the provisions in this prospectus will be referred to the Vice-Chancellor of this Deemed to be University and Vice-Chancellor's decision shall be final and binding.

v. In respect of matters relating to or arising out of this prospectus the jurisdiction shall lie in Chennai alone.

8. DEPOSIT OF CERTIFICATES:

Verification of original certificates will be made at the time of admission. Candidates provisionally selected for admission will have to deposit all required original certificates with this office. Therefore, candidates are advised to keep with them enough number of attested photocopies of their certificates.

9. CHANGE OF NAME/DATE OF BIRTH:

The name and date of birth of the candidate will be registered in the records of the University as given in the HSC Mark Statement/Transfer Certificate/Provisional or Degree Certificate. No request will be considered later in regard to change of date of birth or correction in the name of the candidate. The parents and candidate are requested to verify and confirm these entries in the HSC Mark Statement/ Transfer Certificate/Provisional or Degree Certificate at the time of receipt of the same.

10. PAYMENT OF TUITION AND OTHER FEES

i. Every student shall pay tuition fee and other fee, as prescribed by the Deemed University, within the due date notified. The fees are subject to revision as per rules of the Deemed University.

ii. All fees, once paid to the Deemed University account, will not be refunded or adjusted for any other purpose under any circumstance.

11. RULES FOR DISCONTINUANCE FROM COURSE OF STUDY

i. Where any student applies for discontinuance, or without any application discontinues on his/her own, from the course to which he/she has been admitted to, for any reason, either after the cut-off date prescribed by the statutory authorities for admission to the first year of the course concerned or where the seat is rendered vacant without having any chance of being filled up with any other candidate from waiting list etc., such students will have to remit the tuition fee and other applicable fees for the 'entire/remaining course period'. Unless and until payment of all the prescribed fees for the entire/remaining course period is made to the Deemed University account, such student shall not be entitled to any certificate including transfer certificate, mark sheets etc., to be issued by the University and to get back his/her original certificates deposited with the Deemed University at the time of admission.

ii. All students and parent will be required to furnish a declaration agreeing to the above said conditions at the time of admission.

12. MEDICAL EXAMINATION:

The candidates provisionally selected for admission will have to undergo a medical examination at Sri Ramachandra Institute of Higher Education & Research (Deemed to be University), Porur, Chennai - 116 and only those who are found medically fit will be admitted to the course concerned.

13. LAST DATE:

(a) Application Form duly filled in with all attachments should be submitted online on or before **07.09.2020 (Monday) up to 5.30 p.m.**

(b) The Deemed to be University shall not be liable for any delay arising out of internet technical issues. Hence candidates are advised to file online applications well in advance.

REGISTRAR