



SAVEETHA

COLLEGE OF ALLIED HEALTH SCIENCES

Join B.Sc Hons (Allied Health Sciences)



SAVEETHA
INSTITUTE OF MEDICAL AND TECHNICAL SCIENCES
(Declared as Deemed to be University under Section 3 of the UGA Act 1956)

Accredited by
NAAC
A
Grade



ABOUT SIMATS

Saveetha Institute of Medical & Technical Sciences (SIMATS), a key contributor to quality education in India, through an array of specializations such as, Medicine, Allied & Health Care Professions, Engineering, Dentistry, Law, Management, Physiotherapy, Occupational Therapy, Pharmacy, Nursing, Physical Education and Architecture, along with the The Pupil Saveetha Eco School. SIMATS has a tradition of more than 30 years of excellent contribution to the student community. Saveetha University (SIMATS), which has been awarded an 'A' Grade, by the NAAC (UGC), offers accreditation in a comprehensive list of academic streams to students at UG, PG and super speciality levels.

ABOUT SAVEETHA COLLEGE OF ALLIED HEALTH SCIENCES (SCAHS)

Saveetha College of Allied Health Sciences provides an enriched and diverse learning environment for our students. Our teachers are passionate, experienced and eager to pass on their knowledge to their students. At Saveetha College of Allied Health Sciences, we do our best to prepare our students for a rewarding and fulfilling career in the field of allied health sciences. We believe that great education means much more than acquiring knowledge and skill. The academic program at Saveetha College of Allied Health Sciences places an emphasis on every aspect of our student's growth and development. We take advantage of the natural curiosity students possess by having our teachers present new information in creative ways and teach through exploratory experiences. Suitable class sizes and qualified teachers allow Saveetha College of Allied Health Sciences to offer an intimate and inclusive educational environment, while also ensuring each student receives the individualized attention and support they need.

ALLIED AND HEALTHCARE PROFESSIONALS

Allied and Healthcare Professionals (AHPs) includes individuals involved with the delivery of health or healthcare related services, with qualification and competence in therapeutic, diagnostic, curative, preventive and/or rehabilitative interventions.

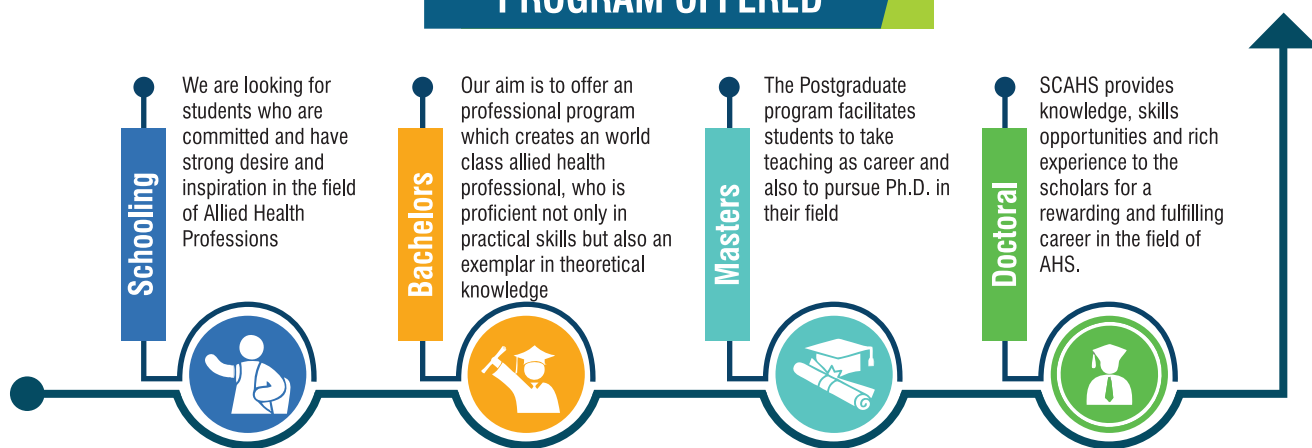
They work in multidisciplinary health teams in varied healthcare settings including doctors (physicians and specialist), nurses and public health officials to promote, protect, treat and/or manage a person ('s) physical, mental, social, emotional, environmental health and holistic well-being.

Modern healthcare system is technology oriented and growing in a very fast pace with introduction and upgradation of newer technology. There is a dearth need of technocrats to handle these high-end sophisticated equipments.



AHPs were distinct from trained technicians who may have expertise in practical skills but lacks deep scientific knowledge on the subject. Allied and Healthcare Professionals possess both theoretical and practical knowledge on their subject domain but also expected to show proficiency in clinical care, own good communication skills, work as a team player in multidisciplinary team, exhibits ethics and accountability at all levels, express commitment to professional excellence, holds leadership and mentorship qualities, socially accountable, exhibits scientific attitude and be a lifelong learner.

PROGRAM OFFERED



I. B.Sc. Hons (Allied Health Sciences) in Under graduate Program (4 years)

1. Biomedical Sciences
2. Cardio Vascular Technology
3. Cardio Vascular Perfusion Technology
4. Critical Care Technology
5. Diabetic Care Technology
6. Dialysis Technology
7. Medical Laboratory Technology
8. Medical Record Science
9. Medical Imaging Technology
10. Neuro Electrophysiology
11. Operation Theatre and Anesthesia Technology
12. Optometry
13. Physician Assistant
14. Radio Therapy Technology
15. Reproductive Medicine and Embryology
16. Respiratory Technology
17. Trauma Care Management
18. Urology Technology
19. Sports & Exercise Sciences
20. CSSD and Surgical Technology

II. B.Sc. Hons (Clinical Psychology)

III. PG Programs (2 years)- M.Sc. in

1. Clinical Psychology
2. Cardio Vascular Perfusion Technology
3. Medical Imaging Technology
4. Medical Laboratory Technology
5. Neuro Electrophysiology
6. Renal Sciences & Dialysis Technology
7. Trauma Care Management
8. Critical Care Technology
9. Echocardiography & Cardio Vascular Imaging Technology
10. Optometry (M. Optom)
11. Respiratory Therapy
12. Operation Theatre and Anesthesia Technology

IV. Ph.D.

BIO MEDICAL SCIENCE

- Biomedical science is the application of the principles of natural sciences to knowledge, interventions, or technology that is of use in healthcare or public health.
- The program focuses on how cells, organs and systems function in the human body, an exciting and dynamic area that is highly relevant to the understanding and treatment of human diseases.
- Biomedical science has plentiful opportunities in hospital & medical industry, research institutes pharmaceuticals, medical coding, biomedical research, marketing & sales – product development and testing, food industry etc. On completion of the undergraduate programme, there is ample scope for doing post graduate and doctoral studies in wide areas of research.

CARDIO VASCULAR TECHNOLOGY

- The graduate program in cardiovascular technology consists of three years of clinical faculty supervised theoretic learning and one-year internship programme. Upon completion of the 3-year course and one-year internship the candidates will evolve into a full trained, qualified cardiovascular technologist capable of working independently.
- The role of the cardiovascular technologists were to review and/or record patient history, performing appropriate clinical procedures of cardiovascular diagnostic and therapeutic services and also participating in interventional cardiovascular catheterization and/or cardiac electrophysiology procedures.
- The job opportunities for cardiovascular technologist were available in invasive cardiovascular catheterization laboratories, cardiac electrophysiology labs, non-invasive cardiovascular laboratories, including adult and paediatric echocardiography laboratories etc.

CARDIO VASCULAR PERFUSION TECHNOLOGY

- Perfusionists are health professionals who are trained to operate, maintain and record the output of a cardiopulmonary bypass (CPB) machine which is also known as a heart-lung machine. Perfusionists also participate in cardiac transplants, cardiovascular surgeries, and specialized chemotherapy procedures. They are also experts of other life support equipment such as ventricular assist devices, extracorporeal membrane oxygenation (ECMO) and intra-aortic balloon pumps.
- The graduate program in cardiovascular perfusion technology consists of three years of supervised theoretic learning and one-year internship programme. Upon completion of the program the candidates will evolve into a fully trained, qualified cardiovascular perfusion technologist capable of working independently.
- The perfusionist gets employed in major hospitals with attractive salary. A handful of them get enrolled for postgraduate and doctoral programs.

CRITICAL CARE TECHNOLOGY

- Critical care technologists (CCT) are healthcare professional who focuses on improving the quality of patient care through safe and effective usage of medical equipment, such as modern airway devices, ventilators, electronic infusion pumps, and arterial pulse oximeters.
- This course provides special training in health care along with thorough knowledge in physiology & technology involved in critical care technology.
- These professionals can treat a variety of injuries or physical ailments, as well as transport patients to a hospital for extended treatment. There are good job opportunities in health care industry in India and abroad. CCTs with passion for teaching and research can opt for post graduation and doctorate programs.

DIALYSIS TECHNOLOGY

- Dialysis technologist are healthcare professionals who performs and monitor renal replacement therapies such as haemodialysis, peritoneal dialysis, continuous renal replacement therapy and other extracorporeal procedures such

as hemoperfusion, plasmapheresis, liver dialysis, immunoabsorption and other immunomodulation techniques for patients with chronic kidney disease or acute kidney injury.

- Three-year graduate program with one-year of compulsory internship in dialysis provides students with the opportunity to study the basic medical science of the renal system, principles and practise of dialysis technology including monitoring, troubleshooting and recent advancements in dialysis technology.
- Dialysis technologists are employed in hospitals and have good opportunities for a career in teaching and research, following the completion of a higher degree program such as M.Sc and Ph.D. There are plenty of job opportunities for employment overseas where their qualifications, training and experience are highly regarded.

MEDICAL LABORATORY TECHNOLOGY

- Medical laboratory technology deals with all the clinical laboratory investigations on various samples for laboratory diagnosis of different disease conditions. • A medical laboratory professional is a healthcare professional who performs chemical, haematological, immunologic, microscopic and microbiological diagnostic analyses on body fluids, as well as other specimens.
- Medical laboratory scientists work in clinical laboratories at hospitals, reference laboratories, biotechnology laboratories and non-clinical industrial labs. Postgraduate and Doctoral students can contribute significantly in research and academics

MEDICAL RECORD SCIENCE

- Health Information Management (HIM) or Medical Record Science covers a broad spectrum of information pertaining to health of the people generated within or outside a healthcare system.
- A Health Information Management technologist or Medical Record Officer is the person that compiles, processes, and maintains the medical records of hospital and clinic patients in a manner consistent with medical, administrative, ethical, legal, and regulatory requirements of the health care system.
- A well trained and skilled HIM professionals would be able to take up various challenging positions in public and private hospitals, public health services, health insurance sector, healthcare IT & research organizations and education institutions.

MEDICAL IMAGING TECHNOLOGY

- Medical Radiology and Imaging Technology is the healthcare profession associated with the direct administration of radiation (x-rays) to assess injury and diagnosis of disease.
- The students will acquire a broad & detailed knowledge in medical imaging which will help them be a new generation in imaging technology by operating advanced equipment such as CT (computed tomography), MRI (magnetic resonance imaging) DSA, DEXA, mammography, CR, DR, fluoroscopy and digital mobile X-ray machines
- The graduates can work as imaging technologists in hospitals with radio diagnostic facilities both in public and private sectors as application specialists in medical imaging equipment companies. B.Sc in MIT graduates have the opportunity to pursue Masters and can undertake teaching positions in educational institutions in India and abroad.

NEURO-ELECTROPHYSIOLOGY

- Neuro electro physiologists are healthcare professionals who are integral part of neurology department and presently they are highly in demand in all hospitals. This program enables the Neuro electrophysiology (NEP) professionals to perform and interpret electrophysiology procedures.
- NEP Students are trained in Sleep studies (Polysomnography), autonomic function tests, pre surgical evaluation of epilepsy, EEG (including Neonatal and long-term monitoring), Nerve conduction studies (NCS), Electromyogram (EMG), visual evoked potential.
- Easy placements with high remuneration are available for the neuro electrophysiologist. There is also ample scope for neuro electro physiologists to pursue higher studies, research and doctorate.

- They also play a vital role in administration and monitoring of anaesthesia and have an extensive knowledge of anaesthesia techniques, instruments, supplies, and technology.
- OTAT professionals are mainly employed by anaesthesia departments or operating theatre suites, emergency departments, intensive care units (ICU) and day care surgery clinics.

OPTOMETRY

- Optometry is a health care profession which is concerned especially with examining the eye for defects and faults of refraction, with prescribing correctional lenses, eye exercises and/or visual rehabilitation care for visually impaired, diagnosing diseases of the eye and treating such diseases or referring them for treatment.
- Optometrists are health care professionals of the eye and visual system who provide comprehensive eye and vision care, which includes refraction and dispensing, detection/diagnosis and co-management of disease in the eye and the rehabilitation of conditions of the visual system.
- There is ample scope for the graduates to practice in optical establishments, job opportunities in abroad, graduates interested in higher studies can join for M.Sc. and Ph.D programs and take up teaching optometry as their career.

PHYSICIAN ASSISTANT

- Physician Assistants (PA) are healthcare professionals trained to provide diagnostic, therapeutic and preventive health care services in all health specialties, as delegated by a doctor.
- The physician assistants work in different departments such as out-patient units, operation theatres, catheterization labs, cardiac care units, intensive care units, organ transplant units, reproductive medicine,

general medicine, ENT, nephrology, urology, gastroenterology, paediatrics, geriatrics, obstetrics department, orthopaedics and trauma care, radiation therapy unit and nuclear medicine.

- The scope of this course is fabulous in our country. Plenty of job opportunities are available in medical software companies, medical coding, medical transcription, pharma industry, medical devices manufacturing companies, medical tourism and medical insurance.

RADIOTHERAPY TECHNOLOGY

- Radiotherapy which is also called as radiation oncology/ radiation therapy is the use of ionizing radiation to treat malignant or benign diseases associated with various organs.
- Radiotherapy technologists are important healthcare professionals in the fight against tumour. They are the professionals with direct responsibility for the daily administration of radiotherapy treatment to cancer patients. Another unique feature of this programme is that it was approved by AERB (Atomic Energy Regulatory Body)
- Employment of radiation therapists is projected to grow at a faster pace, much faster than the average for all occupations. They work as a therapeutic radiographer delivering a technically advanced and caring service in hospitals.

REPRODUCTIVE MEDICINE & EMBRYOLOGY

- There is an increased prevalence of infertility among general population. This program gives extensive training in the field of reproductive medicine, andrology and embryology to the students to enable them to supervise the entire IVF laboratory.
- Students will be trained for processing for both techniques – intrauterine insemination (IUI) and in – vitro fertilization (IVF) and cryopreservation. Students will be able to set up an IVF (in – vitro Fertilization) laboratory.
- This course offers good placement opportunities in multi – specialty hospitals and institutions.

RESPIRATORY TECHNOLOGY

- Respiratory Therapy is an upcoming branch of healthcare profession devoted to the scientific application of technology in order to assist in the diagnosis, treatment, management and care of patients with cardiopulmonary and associated disorders.
- Respiratory therapists are important members of modern healthcare teams. They have specialized medical expertise and use their knowledge and skills to provide safe, high-quality care to the patients.
- The job opportunities are abundant in critical care, acute care (hospital), emergency care, paediatric care and outpatient/homecare settings.

TRAUMA CARE MANAGEMENT

- Emergency medicine technologist plays a vital role for patients requiring immediate medical assistance during acute illness, injuries, and accidents. Candidates trained in trauma care Management (TCM) are the first to be called in case of traumatic emergencies in healthcare centres.
- The curriculum is based on the medical model. Instruction in medical and behavioural sciences, such as anatomy, microbiology, pharmacology, pathology, physiology, haematology, surgery, clinical medicine, and physical diagnosis etc are provided.
- There is ample scope for employment in all corporate hospitals, nursing homes, government/semi govt/public sector after completion of the course. Candidates with a passion for teaching can choose postgraduation and doctorate in TCM.

UROLOGY TECHNOLOGY

- Urology Technologists are healthcare professionals who play a vital role in diagnosis and surgeries associated with genito-urinary system. The program involves advocating a detailed theoretical knowledge of urology and practical training and exposure to different technologies, equipments and procedures associated with urology department.
- The students get an detailed insight about various urological procedures such as Extracorporeal Shock Wave Lithotripsy (ESWL), urodynamics, uroflow techniques, handling urological endoscopes, helping in patient management in both urology outpatients and inpatient units and also assist the urologist in the operation theatre.
- There are good placement opportunities available for the students in super speciality hospitals, clinics and institutions.

CLINICAL PSYCHOLOGY

- Clinical psychology is one of the largest specialty areas within psychology. Having a passion for discovery, learning and listening are part of what it takes to be successful as a psychologist who delivers clinical or counselling services. Working with numerous populations, they focus on individual differences, normal and abnormal behaviour, mental and emotional health, healthy behaviours and mental disorders and their prevention.
- The path to becoming a psychologist usually begins with a bachelor's degree in psychology, where students learn the fundamentals. Following which one must obtain a master's degree. This can open ways to specialization including schools, Government, prisons, research institutions, colleges and universities, businesses and organizations, and private practice.
- Further one can look to specialize in a clinical career as licenced clinical psychologist under the RCI (Rehabilitation Council of India) and furthermore work toward a Ph.D. in Psychology that give higher barring in establishing a career in psychology.

SPORTS AND EXERCISE SCIENCES

- Sports and Exercise Science is an interdisciplinary field under the Allied health Sciences. The branch is a study on the dynamics and complex nature of human movement and explores the response of the human body towards the acute and chronic physical exertion from fitness training and professional sports.

- The program inculcate the knowledge, skills, and aptitudes to the professionals who can work in Sports medicine centres, sports organizations, corporate fitness/wellness industries as Sports and Exercise Physiologists, Movement Analysts/Biomechanists, Trainers/ Health Fitness Specialists/ Exercise Specialists etc. They can pursue higher education in the field of Exercise physiology, Sports nutrition, biomechanics etc.

CSSD And Surgical Technology

- A CSSD and surgical technologist is a health professional who prepares an operating room (OR) and equipments and materials required for surgery. They're a crucial part of a surgical care team, working alongside with the multidisciplinary team which includes the surgeon, nurses, and the professional providing anesthesia etc.
- CSSD and Surgical technologists work in hospital operating rooms, Central sterile stores department and outpatient centers. They spend much of their working day in the operating room, preparing for, assisting with the team before and after surgeries.
- CSSD and surgical technologists can advance their career opportunities by specializing in a particular area of surgery under supervision. CSSD and surgical technologists also manage central supply departments in hospitals, sterile supply services, and surgical equipment industry.

FOR ADMISSION CONTACT

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