

30 years  
of enlightening lives  
SRM UNIVERSITY  
SINCE 1985

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ENGINEERING | MEDICINE AND HEALTH SCIENCES  
MANAGEMENT | SCIENCE AND HUMANITIES



**SRM**  
UNIVERSITY  
(Under Section 3 of UGC Act 1956)



Medicine and  
Health Sciences

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## Hands that make medical miracles happen

The medical world is full of miracles. But behind every medical miracle lies the keen eyes and the steady hand of a medical professional. Here, at the SRM Medical & Health Sciences Faculty, you will constantly push the limits, exploring new ways to combat diseases and life threatening ailments. As a medical student, you will need to build a solid foundation while also staying in tune with the latest medical trends.

### **Introducing SRM University Medical & Health Sciences Faculty**

SRM's Medical & Health Sciences Faculty consists of a variety of specialized departments. Each has its own library along with a laboratory and a museum. One of the few institutions to have a full fledged multi-specialty hospital on campus, the faculty equips you with the latest and best tools for providing primary, secondary and tertiary care.

### **Vital links to the world of medicine**

SRM University's links with Partners International, an organization of top US hospitals, affiliated to Harvard Medical School, USA and Queen's University, Canada, contribute greatly to knowledge exchange, joint research and career opportunities.

Within these pages you will immerse yourself in the constantly changing face of modern medicine and watch exciting career possibilities come to life.



## College of Medicine

- Non-clinical Departments
- Clinical Departments
- Higher Specialties



## Non-clinical Departments

- Anatomy
- Physiology
- Biochemistry
- Pharmacology & Animal House
- Pathology
- Microbiology
- Forensic Medicine
- Community Medicine





## Anatomy

The human body is a combination of 206 bones, more than half of which you will find in your hands and feet. You will need a sound knowledge of these and many other parts of the body as you venture into the clinical domain. The Anatomy Department is fully equipped to groom good doctors and health sciences personnel who are in great demand in a fast growing world.

The anatomy sessions have a balanced approach with a combination of didactic lectures, dissection and demonstration of cadavers, micro study of individual organs and teacher-student interactions in the form of seminars and symposia. Lectures are made lively with the use of multimedia devices and students are divided into groups.

You will find this to your advantage, as the professors are able to devote more individual attention. The faculty are experienced and highly qualified, a fact that will make your coursework a breeze. Expert and friendly technicians in addition to the faculties are more than happy to help eager students in advanced research.

### Curriculum

M.B.B.S. students are given a sound grounding in gross and micro anatomy along with developmental anatomy with its inherent anomalies. They are also introduced to the exciting world of genetics. The postgraduate program in anatomy delves in-depth into the intricate organization of tissues and cells with the help of advanced apparatus. The department offers MD in Anatomy.

### Dissection hall

The spacious and well-ventilated dissection hall has the infrastructure to accommodate 150 students. Experienced faculty help the students to use the modern laboratory facilities. The department provides 10 cadavers for dissection and demonstration every year for 150 students.

### Museum

Here, dissected human body parts, bones, models of the human body and developmental details of prenatal life are exhibited. Students find these museum specimens helpful in consolidating what they learnt in the dissection hall. There are 15 numbers of catalogues of all specimens and models for the student's reference.

### Histology laboratory

The laboratory is equipped with more than hundred microscopes and other infrastructures that help students understand the microscopic structure of human organs and the organization of tissues.

### Research

Both the faculty and the postgraduate students are encouraged to do research on advanced topics in anatomy and have the resources to do so.



## Physiology

As you become immersed in this area of body science you will be guided by a team of dedicated faculty members with excellent teaching resources. The sessions are a mix of both theoretical/practical training and pre-clinical knowledge instruction. Regular symposia, seminars and journals club meetings create forums for the exchange of ideas. The faculty members use both vertical and horizontal methods of lecture and demonstration classes so that students have a deeper understanding of applied physiology.

### Curriculum

The undergraduate students are given a sound grounding in the basics of physiology. The curriculum is comprised of lectures backed by practical classes where students apply concepts in real time. The postgraduate program imparts to students a detailed look at physiology, instructing them through tutorials, seminars and group discussions and motivating them in research activities of their interest under the guidance of expert faculty. The department offers MD in Physiology.

### Laboratories

Physiology students have access to spacious laboratories equipped with sophisticated equipment:

- Haematology laboratory: microscopes, binocular microscopes, centrifuges, haemocytometer along with other equipment for conducting haematology experiments, such as solutions and reagents
- Mammalian laboratory: facilities for experiments on large and small animals
- Clinical physiology laboratory: equipped for examining human subjects, such as ECG, spirometer, ergometer, perimeter
- Research Laboratory: sub divided as Sleep lab, LFT lab, HRV lab. Each lab is equipped with polysomnography, computerized spirometry, 8 channel physiopac respectively. Further it is also equipped with polygraphs and physiographs for recording and studying the physiological activities of the subjects
- Museum depicts Nobel laureates on the wall of fame, wet specimens and gallery of charts

### Conferences

In Feb 2008, National Level Workshop on Acquisition and analysis of Bio Medical Signals was conducted.

In March 2010, M.B.B.S. students conducted a Symposium on Shock, Surfactant & Periodic Breathing.

In Feb 2011, State level CME on Exercise Physiology: Converting Principles to Performance – A Practical Approach was organized. Every year Faculty and Post Graduate Students presented scientific papers and participated in various national conferences within the state.



## Biochemistry

As new and rapid techniques of dealing with diseases at the molecular level are discovered, you need to be prepared and possess a passion for research. The faculty relies on advanced teaching methodologies and learning aids to ensure students learn the subject in an interesting way. The faculty's experience widens the scope for both clinical biochemistry and research. They constantly stay updated with the latest developments in the field by involving themselves in conferences and symposia. The department also has a well knit team of health sciences and technical staff who can take credit for the smooth functioning of the laboratories.

### Curriculum

M.B.B.S. students are initially instructed in the basics, giving them an understanding of the clinical processes involved in biochemistry. Case discussions are used to instruct students in a challenging way. Students are constantly assessed and given additional guidance as they require it. During clinical postings the students can familiarize themselves with the facilities available in the clinical laboratories. Students receive hands on training in estimating biochemical parameters while gaining practical experience in the point-of-care testing of patients at the bedside to assess their condition. The department offers MD in Biochemistry

### Laboratories

At the biochemistry laboratory, students will have access to every kind of equipment for the study of biomolecules. The spacious laboratory has colorimeters, centrifuges, distillation units, electronic balances, microscopes, a flame photometer, automated pipettes and dispensers.

The clinical biochemistry laboratory at SRM Medical College Hospital is also equipped to facilitate the practice of students. It has automated clinical chemistry analyzers, blood gas analyzers and ELISA readers, an HbA1C analyzer, automated immunoanalyzer, electrolyte analyzer, semiautomated blood chemistry analyzer.

The research laboratory is equipped with some of the latest equipment including electrophoresis units (polyacrylamide gel systems), chromatography units, homogenizers, distillation units, research microscopes, autoclaves, spectrophotometers, pH meters, UV lamp and incubators that assist postgraduate students in conducting high level research.

### Research and Projects

Postgraduate students are encouraged to take up research in the various fields of biochemistry. The research laboratory is a boon as it has the resources to allow students to perform clinical research. The department has several projects on the anvil:

- Isoenzyme study of serum alkaline phosphatase on polyacrylamide gel electrophoresis in hepatobiliary disorders.
- Comparison of two methods of estimation of LDL-C, the direct versus Friedewald estimation in secondary hyperlipidemia.
- Role of measurement of serum fructosamine and glycated haemoglobin in GDM.
- hsCRP in polycystic ovarian syndrome.
- Antioxidant status in neonatal jaundice before and after phototherapy.
- Study of ApoB, ApoA lipoprotein levels in hemodialysis and non-dialyzed patients with CRF.
- Increased DNA damage in rheumatoid arthritis.
- Metabolic syndrome and insulin resistance in subclinical hypothyroidism.
- Association between serum GGT concentration and diabetic peripheral polyneuropathy in Type II Diabetic patients.
- Study of electrophoretic patterns of amylase isoenzymes in normal and abnormal conditions.





## Pharmacology

A good physician has to be a good pharmacologist. Students gain a thorough knowledge of medications, such as various routes of administration, mechanisms of action, pharmacokinetics, adverse drug reactions and dosage schedules.

With well qualified and experienced faculty guiding them, students can look forward to an interesting course. The faculty keep themselves up to date by participating in national and international conferences and presenting scientific papers. This in turn keeps students updated.

### Curriculum

The curriculum is a healthy mix of theoretical and practical work. Students are expected to take up projects and attend clinical classes. They are also given the opportunity to learn new concepts through seminars, group discussions and CME programs. Interactive sessions encourage students to present their understanding of the subject. Faculty members put the audiovisual facilities of the lecture halls to good use in keeping the sessions lively.

Undergraduate students are made familiar with the usage of medications commonly prescribed in medicine. Since prescribing drugs is an important daily routine for a medical professional, training in writing a proper prescription is also part of the curriculum. The department offers MD in Pharmacology.

### Laboratories and Facilities

Pharmacology students have an unparalleled advantage with fully equipped laboratories that provide the resources for practical training in experimental pharmacology, clinical pharmacology and pharmacy. The clinical pharmacology unit provides practical training in bedside diagnosis and treatment.

The research laboratory is equipped with a spectrophotometer, colorimeter, a flame photometer, physiographs, a pH meter and a kymograph.

### Museum

The pharmacology museum motivates students to learn through observation. Displays include drug samples, charts, models and a section depicting the history of medicine.

### Research

Both faculty and students are encouraged to attend research programs to come out with better medications and investigate existing prescription drugs. The Animal House is attached to the department as much of the research involves testing.

### On going projects :

- Study of prescription pattern of antifungal drugs in SRM Medical College Hospital by Dr. T.Rajathilagam
- Effect of phyllanthus niruri extract on experimental induced inflammatory bowel disease in albino rats by Dr. Satyajit Mohapatra.

### On going Ph.D projects :

- Endocannabinoid system as a target in the treatment of depression by Mr. Shishir Mishra
- Effect of Endocannabinoid system on the progression of atherosclerosis by Mr. D.Kumaraswamy
- Role of Vitamin D in tuberculosis – Mrs. B.Kiran

### A vital role

The department plays a pivotal role in the SRM Medical College Hospital by providing other clinical departments with variety of services:

- Pharmacovigilance (adverse drug reaction reporting)
- Pharmacology Pearls Bulletin
- Drug information for clinical departments
- Patient treatment assessments by monitoring drug levels.
- Complete drug formulary for clinical reference
- Clinical trials conducted in collaboration with pharmaceutical companies



## Animal House

The Animal House is a resource center for students and faculty of various medical disciplines. It is here that B.Tech. and M.Tech. students receive an introduction to animal testing and observation, a vital part of live research. Here you will also learn the ethical treatment of animals.

Qualified veterinarians and technical personnel are always at hand to help carry out research and keep it in accordance with the standards established by the Committee for the Purpose of Control and Supervision of Experiments on Animals (CPCSEA).

### Animal care

The laboratory houses many species of animals including rats, mice, guinea pigs, rabbits, frogs and sheep. Each laboratory animal requires special care. They are normally sensitive to their living conditions and living habits. The support staff ensure that every part of animal care including feeding, watering, restraining, cage cleaning, record keeping and ordering of animals, feeds, bedding materials and equipment from outside sources are monitored. The animals themselves are isolated from human habitation and guarded from dust, smoke, noise, wild rodents, insects and birds—in fact anything that would disturb their habitat. The housing environment and climate is moderated as well to ensure that artificial variables do not interfere. Veterinary clinical services and care are given to all animals housed at the department.

### Veterinary care

Veterinary care is crucial to keep the animals content and healthy. The veterinarian keeps them under daily observation and monitors any behavioral changes or signs of illness. He supervises their diet and sanitation and contributes to the formulation of appropriate policies and procedures for ancillary aspects of veterinary care. He also periodically reviews protocols and proposals, animal husbandry and animal welfare, and monitors occupational health hazards containment and zoonoses control programs.

### Animal ethics

Where testing on animals is concerned, every student and faculty member follows strict guidelines laid down for the animal's safety. The Animal House was established keeping in mind the requirements of the Medical Council of India (MCI) norms. The Institutional Animal Ethics Committee (IAEC) was established in SRM Medical College, as per the rules of expansion. It comprises members from within as well as outside the institute apart from a nominee of CPCSEA. The IAEC scrutinizes each project to ensure that it follows ethical guidelines.

### Research projects

Currently the members of IAEC have approved two research programs and a teaching program:

- Development of a diagnostic test to identify the species from snakebite by Dr. Radha Madhavan, HOD of Microbiology
- Hypoglycemic effect of polygalaglabra in alloxan induced diabetic rats, by Dr. Samudram



## Pathology

Pathology is a bridging discipline between clinical and non clinical subjects within the Medical Curriculum. Pathology deals with the study of the causes of disease and their manifestations in various body organs. The knowledge acquired by the student while studying pathology is essential for a proper understanding of the clinical subjects.

The department has experienced and enthusiastic faculty members, who are actively involved in hospital diagnostic work, undergraduate and post graduate teaching, curriculum development and research. Weekly discussions are held in the department and at clinical meetings. The staff members regularly attend conferences at local national and international level to upgrade their knowledge.

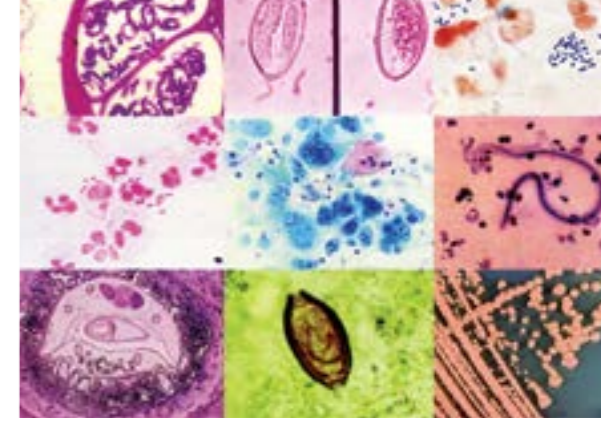
The teaching program consists of didactic lectures. Students are also encouraged to take part in seminars and are given assignments regularly. Modern teaching methods like problem based learning have been introduced, these students are encouraged to think for themselves.

Well planned lecture halls which can accommodate upto 200 students, are available which are equipped with latest audio visual aids. The practical halls which can accommodate above 90 students each are available. The department has a collection of over 100 charts which make the learning process easier for the student.

In addition there are two demonstration halls to facilitate small group learning equipped with audio visual aids.

The departmental museum is well designed, with adequate lighting, and has about 500 specimens and several informative charts. Our central library is well stocked with adequate volumes of the recommended and reference books in pathology. In addition, our departmental library is also having adequate books for reading.

The Pathology Department provides diagnostic support to all the clinical departments. The diagnostic wing consists of four sub sections – Histopathology, Hematology, Cytology and Clinical Pathology. The diagnostic wing has sophisticated equipment like automated cell counter, semi automatic coagulation profile machine, fluorescent microscope, automated tissue processor, cryostat, Leica microtomes, penta head micro and bright field microscopes. The department offers MD in Pathology.



## Microbiology

A sound knowledge of microbiology gives you a foundation in the diagnosis and management of diseases. Microbiology is an ever expanding science and includes various branches like bacteriology, immunology, virology, parasitology and mycology. Students also undertake research in allied sciences like genetics, biotechnology and immunology.

### Curriculum

- M.B.B.S. students can expect to be given complete knowledge of contagious diseases in order to deal with the etiology, mode of spread, pathogenesis, laboratory diagnosis, treatment, control and prevention of infections in the community. Regular assessments ensure that they are progressing in their coursework.
- MD PG course in Microbiology is offered to MBBS graduates. Regular journal club and seminar to discuss current topics of interest motivate the students to take up challenging projects for their dissertation and to publish articles in good standard journals. Training imparted in laboratory reporting help to shape them to be best microbiology consultant.
- The M.Sc postgraduate program in medical microbiology is offered to biology graduates. A thorough foundation is given through theory and practice in basic medical sciences, namely anatomy, physiology, biochemistry and pathology, biostatistics as well as in the sub-specialties of microbiology. They are also trained in teaching methods that enable them to excel in teaching assignments at medical colleges and teaching institutions.

### Diagnostic services

As a part of the SRM Medical college hospital, the department takes care of its patients in the area of bacteriological, parasitological, serological (including viral serology) and mycological investigations. The microbiology division of the central laboratory is adequately equipped for handling these investigations. There are separate internal, as well as external, quality control programs to ensure the reliability of reports.

### Research projects

Students are encouraged to take up short projects with the Indian Council of Medical Research (ICMR). The faculty offers guidance for research to our own students as well as students from other universities. The department is known for its active involvement in social service and has conducted several projects that have earned appreciation:

- Two national level programs: Revised National Tuberculosis Control Programme, and Counseling and testing centre under TANSACS
- Continuing Medical Education Program at the national level.
- Annual World AIDS Day to generate awareness of HIV among public, medical student and practitioners.

# Department of Forensic Medicine

The recent agenda of this millennium is “Inclusiveness”

Forensic Medicine is an inclusive medicine which involves the application of knowledge of all the branches of medicine and science in the administration of justice.

Forensic Medicine is one of the departments in SRM Medical College & Hospital, addressing the legal issues and providing solutions for the same. This subject is taught for the students of II MBBS III, IV & V semester for a period of 18 months.

The Department of Forensic Medicine is situated on the third floor of SRM Medical College with ‘the truth seeking place’, a mock court room; ‘the treasure house’, Forensic Museum; the ‘one stop place’, Practical Hall; a Research Laboratory; a store house of knowledge ‘the Library’; a well equipped Seminar Hall; a couple of Demonstration Halls and extensive area for the teaching and non teaching staff of the Department and not the least, ‘Crime Beats’, the daily news of criminal & Negligence cases

As “Seeking the Truth” is the essence of Forensic Medicine **MOCK COURT:** ‘The Truth Seeking Place’

The Department of Forensic Medicine, SRMMCH has set up the first ever mock court room in Tamil Nadu where a simulated



jury trial is done for/by the students of II MBBS as an extra curricular activity which enables the students to prepare and present the evidence and being cross by the trial attorney.

This present training is done in the interest of future doctors to face court proceedings whenever they are being summoned. Students were trained to research, formulate the document, to practice and conduct the proceedings, arguments and opine on the Negligence and Criminal cases. The proceedings which mirrors that of the actual courts encourage the students group discussions, decision making, problem solving (holistic), communication, namely the preparation and presentation on the whole; each student has got a ground to build upon their own knowledge and understanding on the medical and legal issues of the scenario to form opinions about how the courts operate, their features, the role play in society and ultimately the assessment as to their effectiveness as a common lay man / expertise.

The Inter & Intra college Competition programmes-students were trained to involve and were runner up and winners in conducting several mock trials on Medicolegal cases- Medical Negligence and criminal cases existing in the real time period in society.

## **MUSEUM: “The Treasure House / The Hallmark” of the department**

“The tongue like a sharp knife... Kills without drawing blood.” - Buddha

The Department of Forensic Medicine, SRMMCH has set up the first ever treasure place which holds the extensive collections of varying nature, say the scariest ‘wound man’ to weirdest photographs to freakiest and most fascinating exhibits (photographs, tissues, specimens, organs) of foetus and adult in context of medico legal cases/scenarios; weapons ranging from firearm, ammunitions, typical and atypical blunt and sharp weapons and the corresponding nature of injuries caused by the same.

If you have numerous interests on forensic archaeology, anatomy, forensic and biological anthropology, mummification-thanatology, forensic entomology, forensic ecology, taphonomy, natural histology and pathology, and trauma analysis; medical history of the lost souls of whether natural, unnatural, sudden, suspicious, mysterious undetermined causes, seek for it as the Museum has exhibits of forensic relevance which holds the promises of fascinating you with engraved memories in your hippocampus. Subsections of features include the dead foetus preserved in jars of formalin.

This load of treasury holds exhibits of artefacts, archives related to history of Health care, works of art, medical instruments, drawings to enhance the practical knowledge of the students and imparts the wisdom to handle the living individuals / dead as to know the cause / circumstances of illness / death respectively.

None misses the opportunity / chance of visiting our forensic museum in the first hand as a visitor of SRMMCH, SRM University, as this forensic museum is a hall of lecturing not just the students, police, law makers, law enforcers in subjects of Forensic Medicine, Clinical Forensic Medicine, Toxicology, Pathology, law and investigatory practices and existing techniques. Stand alone, this is the place which educates the ‘essence’ of a living soul – ‘the life’ and to virtually see the effects of drugs, toxins on a human being.

## **PRACTICAL HALL: the ‘one stop place’ of user friendly guide**

The Hall which acts as a ‘one stop place’, is a source of materials and methods to the students in learning the skill - practical and clinical forensic medicine with research facility.



The students were given training to develop a wide range of practical skill to observe, measure, examine, interpret, record by conducting demonstrations to teach the “elements of examination” in context to clinical forensic medicine & toxicology vis-à-vis Identification of a missing person by age estimation with dentition / X rays, examination of an injured person, a drunken, a sexually abused / offender and issuance of medico legal (wound) certificate; training in medico legal examination of the skeletal remains of the dead persons.

The hall serves as a place of “a demonstrations coupled with powerful ideas”, say the bundles of skeletal remains of human, ape skull; charts, illustrations, tables, photographs, diagrams, load of X rays, thereby helping the students to navigate the information and go through the contexts step by step, as “learning in a contemporary style” with presenting lectures in order to raise awareness about the examination of forensic and its significance to modern medicine.

## **RESEARCH LABORATORY:**

The Research laboratory is a valuable resource for the medical and non medical personnel working in forensics with the infrastructure for postmortem examination and research including the instruments and surgical robes, guidelines, charts, illustrations, slides and photographs. It is highly useful for students pursuing Medical research modules in Forensic Analysis, scene of Crime and as a part of broader programme / Integrated Degree course.



## **SEMINAR HALL:**

Intensive discussion is going on to explore the talent to the depth of knowledge of the Forensic Medicine to ensure justice to the society in general.

The Photographs in the department speaks the Forensic cases of our state and none of the visitors leave the Museum without a take home message of the ‘truth’ alone triumphs.





## Community Medicine

Community Medicine is the branch of medicine concerned with the health of populations in addition to individualized patient care. It looks at the overall patient problems in the context of their families and their communities from a holistic point of view. Thus, students are taught the preventive, curative and promotive aspects of illness.

Community participation, cost effectiveness, appropriate technology and delivery of clinical services close to the family with the maximum managerial efficiency, are some of the guiding principles of the specialty.

A state-of-the-art rural health training centre in Mamandur, spread over five acres, showcases the primary healthcare delivery model with the appropriate referral systems for tertiary care. The urban health centre caters to the population residing at Maraimalai Nagar. The centre serves as a fertile learning environment regarding problems of urbanization.

Students are oriented to the major health problems of the country and are exposed to the various National Health Programmes of the Government of India. As part of their learning, students are exposed to various community based problem solving exercises. Students are exposed to the basic principles of Epidemiology & Research Methodology, Health Planning & Management. This would enable the student to identify and prioritize health problems in his community and to devise appropriate action plans.

The department has a well stocked library equipped with computers and internet connections. Fixed mobile clinics are arranged to cater to the health needs of the population in the Kattankulathur Block. There is also a Tribal Health Program serving the tribals living in the Javvathi Hills. There are many ongoing Research Projects including multi-disciplinary and funded studies.

Post Graduate (MD) degrees and PhD programmes are also offered, apart from many short term training programs on issues relating to Health Management, Health Economics, and Health Informatics. The department has ample capacity to do carry out consultancy services, as and when needed.

The Community Physician demonstrates excellence in academics, health research, and leadership skills in Public Health.



## Clinical Departments

- General Medicine
- Accident and Emergency Medicine (Casualty)
- Paediatric Medicine and Neonatology
- Dermatology
- Psychiatry
- Radiology
- Pulmonary Medicine





## General Medicine

The Department of General Medicine forms the nucleus of the clinical departments. This provides the base for inculcating clinical knowledge to the students giving them an edge to survive in this ever changing, rapidly progressing field of medicine. The field of medicine may be as vast as the universe and here at SRM, we focus on encompassing this universe and push students to widen their horizon, acquire clinical acumen and skill based knowledge.

The department provides 24x7 quality services for both inpatients and outpatients. The faculty here is well trained in clinical teaching. Their vast experience is put to use to guide the younger generation. The faculty attends national and international seminars to update their knowledge and keep them up to date on current protocols, standards for teaching and clinical knowledge.

### Curriculum

The curriculum is according to MCI recommendations and exams are conducted twice a year, in July and February. The students are exposed to the subject of Medicine starting from their second year of MBBS where they are posted for 45 days, in their third year for 30 days and two and half months that's final year. At the end of each posting an internal assessment test is conducted to assess the knowledge acquired.

The process of learning medicine is interesting and continuous where they are kept aligned with recent advances in diagnosis and treatment of disease. The interns are taught to evaluate a patient as a whole and not to compartmentalize systems. They critically evaluate the case, from a working diagnosis, form a protocol for evaluation and treatment. They learn to follow up the patient and assess them periodically. They are trained to manage emergencies and undergo BLS, ACLS, Airway and Toxicology. The department offers MS in General Surgery.

### Facilities

The department has 180 beds for inpatients, separate isolation ward for infectious diseases, intensive medical care unit, respiratory intensive care unit, and special wards. It is ably assisted by the Department of Radiology with state-of-the-art MRI, round the clock CT and Ultra sonogram. Bedside procedures like pleural fluid aspiration, lumbar puncture with CSF analysis, bone marrow aspiration and paracentesis are done in the wards with students being trained to do the same under supervision. The department assists students in getting basic ECG interpretation. ECHO, PFT, Treadmill, EEG, EMG and mammogram are done on needed patients.

### Research studies

The department has initiated a research profile on thrombocytopenia and have been actively guiding fellow researchers from Department of Pharmacology and Biochemistry. A separate wing for evaluation of diabetic patient, has been created and nutrition clinic focus on their dietary adjustments.

### Community health

The department is actively involved in conducting various camps in and around SRM University. It handles specialty camps at urban health centre of Maraimalainagar.

In a nutshell, this department trains you to become a better doctor and a better human ready to embark a wonderful journey.





## Accident and Emergency Medicine (Casualty)



As the traffic gets more and more chaotic, the emergency services have their hands full. Enter an exciting world where every minute could save a life. The Casualty Department at SRM Medical College Hospital pulls out all stops to create outstanding doctors.

Advanced teaching techniques and learning aids and state-of-the-art research facilities await students. They are trained not just in technical aspects but in interpersonal skills as well.

The department is driven by well qualified and experienced postgraduate doctors specialized in accident and emergency medicine. Experienced faculty members are supported by six Casualty Medical Officers (CMOs) to provide high quality accident and emergency care round the clock.

### Curriculum

The undergraduate program introduces students to Basic Life Support (BLS) and emergency medicine, subjects that are not usually taught in the medical colleges following the conventional syllabus. The curriculum is based on sessions on first aid, BLS, disaster management, Advanced Cardiac Life Support (ACLS), Advanced Trauma Life Support (ATLS), Advanced Paediatric Life Support (APLS). Practical training in CPR and advanced life saving skills are given to each and every student.

### Forums of innovation

The faculty members contribute to the academic development by presenting papers and posters in international and national conferences. Doctors, residents and medical students are also involved in regular CME programs.

### SRM EMCARE 2006

At the end of October 2006, eminent consultants from Partners International, Boston, USA arrived for the SRM EMCARE conference on emergency care. Experts from all over Tamil Nadu met to share and acquire knowledge at this exciting international event hosted by SRM Medical College Hospital and Research Center. They addressed such subjects as trauma to the Chest, Abdomen, Pelvis, Head and Spine through inspiring lectures and workshops.

The Basic Life Support workshop leaders used simulator manikins to illustrate intubations in normal and obstructed airways. "Sim Man" also proved to be the ideal subject for teaching how to spot arrhythmia, practice CPR and IV cannulation, and perform a Needle Cricothyroidotomy. In fact, the Medical college will be purchasing a fleet of "Sim Man" to this end.

A student and faculty exchange program is part of the MoU signed between SRM University and Partners International - USA, in addition to setting up an Emergency Trauma Care Centre at SRM Hospital with the expertise and guidance of Partners.



## Paediatric Medicine and Neonatology

Paediatrics tunes student's medical skills towards the health of infants, children and adolescents, their growth and development, and their opportunity to achieve full potential as adults. Paediatricians who care for the young are also concerned with social and environmental influences along with the health and well being of children and their families. The young are often the most vulnerable in society and so their needs require special attention. With this in mind, paediatricians at SRM Medical College Hospital and Research Center provide child healthcare with utmost care and affection, especially to the poor and needy belonging to the surrounding 80 odd villages.

The well qualified faculty includes senior and experienced paediatricians. The faculty and the dedicated nursing staff are always at hand with guidance.

### Curriculum

Over the course period students will be part of organized teaching programs that are comprised of lectures, clinical postings, evaluation tests and more. The department offers MD in Paediatrics.

### Clinics and facilities

The department has fully serviced out-patient and in-patient clinics to care for children who are the victims of diseases and other problems. The general paediatric ward has a bed strength of 60 and separate cubicles for treating children affected with acute gastroenteritis and infectious diseases. The clinics also have a side laboratory, an emergency treatment room, a pantry and a library-cum-seminar room for instructing the students.

### Neonatal services

With a total bed strength of 10, the Neonatal Intensive Care Unit (NICU) has all the facilities to take care of sick newborn babies. Its special feature is the separate cubicle for babies born outside. Mothers are encouraged to feed their babies and a special room is provided. The NICU is equipped with ventilators, incubators, phototherapy units, monitors, oxygen and suction ports, and resuscitation kits, and has a separate procedure room handled by trained nurses. The operation theatre, labour room and the aseptic labour room have resuscitation units. A transport incubator is available to convey babies from other places.

### Paediatric Intensive Care Unit

The 3-bedded Paediatric Intensive Care Unit is fully equipped with monitors, oxygen ports, suction unit and emergency drugs, and is placed in the care of experienced nurses.

### Special clinics

- The immunization clinic has vaccines for children and administers them at subsidized rates. Strict asepsis and preservation of cold chain is maintained by the use of ILR
- The Well Baby Clinic monitors the growth and development of the children. Mothers are also given advice on proper feeding
- Clinics on nutrition, child guidance, child rehabilitation and asthma are conducted regularly

### Community health

Students will be involved in the frequent health camps that the department conducts for rural children. The department uses these clinics to spread awareness on child healthcare. The department also adopts villages and provides healthcare for them. A FM radio is used to broadcast healthcare announcements.

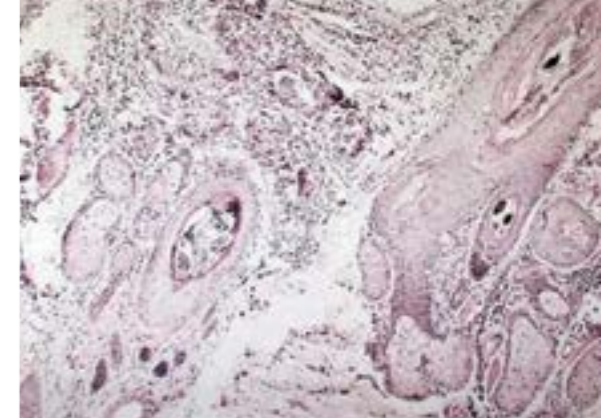
One of the proud events of the calendar is the World Breast Feeding Week during the first week of August that the department has conducted successfully for the past five years in collaboration with UNICEF. The department marks the day by spreading awareness through posters and organizing interactive sessions with the public. Talks by eminent people are also arranged on the subject along with quizzes and contests where medical personnel participate.

The department conducts the Nutrition Week in the first week of September every year. A symposium on "Nutrition in Children" and interactive programs with mothers are the highlights of the event. The program had a great impact on people from neighbouring villages.

### Research programs

The department encourages both students and faculty to participate in research initiatives and to update their knowledge by attending conferences and workshops. The faculty members frequently attend CME/IMA lectures. In the area of research, various cross sectional studies and trials are underway.





## Dermatology

The study of skin and its problems require skill and sensitivity. To understand this discipline, you will be placed under of highly qualified faculty members who have wide experience in teaching innovatively and effectively with state-of-the-art methodology.

The faculty members believe that an interactive mode of study and observation sharpens one's skills. Many of the faculty members have participated, presented or chaired sessions in the regional and national conferences in dermatology held over the last 5 years. Original research papers have been presented in national and international journals. They also conduct and take part in CME programs as well as current research work, as part of routine programs. A cosmetology is finding to keep abreast with the social demands of a progressive culture.

### Curriculum

Undergraduate students learn first hand by seeing and diagnosing a wide variety of skin problems from all sections of society. Students will have access to modern and scientific techniques, in line with the trends in medical education worldwide. The curriculum includes student presentation, interaction, feedback and workshop. The department offers MD in Dermatology.

### Clinical and laboratory facilities

The department has equipment like a bifricator, a radio frequency ablator, a micro dermabrader, a micro pigmentation set, a chemical exfoliation set, liquid nitrogen cryotherapy and iontophoresis to carry out minor outpatient procedures.

A complete phototherapy unit and woods lamp are already available.

The out patient department treats a large number of people from varied occupational backgrounds. The department also has an 8 bed in patient skin ward with privacy cabins for managing complicated cases requiring special drug therapy and intensive care.

### Community outreach

Students and faculty are actively involved in the medical camps conducted by the medical college. They screen people in the villages and in all colonies, factories and institutions located on the Tambaram-Chengalpattu corridor. Regular camps are held to treat the poor, and to ascertain and prevent commonly recurring skin disorders.



## Psychiatry

The Psychiatry Department comprises a team of highly qualified psychiatrists, clinical psychologists, psychiatric social workers and psychiatric nurses.

### Curriculum

Undergraduate students are given a firm base in the science of psychiatry through a rigorous teaching program that balances theory and clinical demonstration. The students are given clinical postings in the fifth semester and during internship. The department offers MD in Psychiatry.

Our postgraduate training includes regular topic discussions, evaluation of out-patient cases, weekly case conferences, discussion on recent research updates, management of psychiatric emergencies, detailed assessment of in-patients and various psycho social interventions. Students also get to learn the most modern psychological techniques that are being used all over the world to counsel, treat and guide patients.

### Clinical services

The out patient department receives patients from all walks of life, with problems that range from minor mental disturbances to major disorders. Faculty members actively provide child guidance as well as suicide prevention services and consultation. The department also has in patient facilities with 30 beds including the facility of electro convulsive therapy (ECT) .Special care is taken for addiction cases and motivational counseling.

### Research and consultancy

The department is involved in ongoing research on “Patterns and Prevalence of Attempted Suicide and Psychiatric Co-morbidities”. Another Indian Psychiatric Society funded multi-centric research study on the “Prevalence and Phenomenology of Functional Somatic Symptoms in Depression” is underway. There is a pilot study going on in the department to construct a mental health questionnaire for use in general hospital population.

### Knowledge exchange

The faculty members and students conduct Continuing Medical Education (CME) programs which involve a series of debates, seminars and talks on recent medical developments and future course of psychiatry as a science. They do attend national and international conferences to exchange knowledge on the progress made in different areas of modern psychiatry to stay up-to-date in the field. They have also submitted study papers at several national and international forums.



## Radiology

- Radiology department meets all the specification of MCI & NABH.
- In addition to X-rays and Fluoroscopy, all the new imaging facilities like USG, Colour Doppler, CT scan, MRI, mammogram, computerized radiography available.
- Well qualified dedicated service oriented, radiologists and paramedical staff available round the clock.
- Aply supported by all specialties in clinical medicine.
- Unique for
  - Availability of qualified radiologist round the cloclck.
  - Less waiting time, no date fixation (except for few investigation as mandatory)
  - Detailed documentation of the cases as per the requirements of clinician.
  - No dearth for clinical material both in quality and quantity.
- Cases are constantly monitored by different faculties at different levels.
- Museum collections for students can speak the facilities available, volume quantity of work carried out in the department for the past 7 years of existence.
- A word of appreciation for the individual and recognition for radiology department as are of our college student DIKSHA has opted and selected for training in radiology at Harvard University under the exchange package of student. The department offers MD in Radiology.



## Pulmonary Medicine

With the spread of immunosuppressant drugs and HIV/AIDS, potential doctors need to know how to tackle TB, and be aware of worldwide efforts to control this bacterium. You will be under the guidance of highly qualified and experienced faculty members.

### **Curriculum**

M.B.B.S. students are taught various aspects of clinical presentations, diagnostic tools, X-ray diagnosis and management of tuberculosis with special reference to revised National TB Control Program (RNTCP). The teaching method involves both theory and study through observation of clinical diagnosis.

### **Clinical and laboratory facilities**

The department has both out-patient and in-patient facilities. An average of 40-50 out-patients attend the clinic every day. You will have access to some of the best facilities in the examination rooms, where students are taught how to recognize different strains of the bacterium causing disease and their effects on patients. The examination rooms have facilities for diagnostic bronchoscopy, Directly Observed Therapy Strategy (DOTS) and Pulmonary Function Tests (PFT).

The in-patient ward has 30 beds for male and female patients. Video bronchoscopy is used for diagnostic purpose, while the PFT machine is used for testing lung function.

### **Community outreach**

The students are involved in various camps that are conducted in schools and rural areas as part of the community medicine services. The department also issues free ATT drugs and vitamin tablets for needy community members.



## Surgical Specialities

- General Surgery
- Orthopaedics
- Otorhinolaryngology (ENT)
- Obstetrics and Gyynaecology
- Ophthalmology
- Anaesthesiology



## General Surgery

The department of General Surgery is a well established one, training M.B.B.S surgery undergraduates and M.S. (General Surgery) Post Graduates apart from having a busy schedule of teaching B.D.S, B.P.T, B.O.T students and also B.Sc., M.Sc Nursing students.

### Faculties

It is composed of senior faculty members who are professors with more than 30 to 35 years teaching experience of undergraduate and post graduate students. They are assisted by a faculty of Assistant Professors and Senior Residents.

### Facilities & Services

The Department performs major surgical procedures and minor surgical procedures daily in six operation suites, suitably equipped with modern operating tables, state-of-the-art lights and life supporting systems. There is a large class room attached to the theatres with audio video communication where the students are shown intricate procedures explained by senior faculty members.

Routine laparoscopic surgical procedures are done regularly with latest machines. The Department runs a popular endoscopy service with gastroscopy and colonoscopy facilities. The patients are given colour prints of the procedure done at a very affordable rate.

The Surgical Intensive Care Unit (SICU) caters to the patients who have under gone major surgical procedures within elective and emergency formats.

A round the clock emergency service is offered where in all the surgical specialties are available round the clock to cater to the needs of accident victims.

Regular academic work is composed of not only didactic lectures but symposia, journal reading and clinical society meetings. Interactions with allied specialties like radiology, pathology oncology and other surgical superspecialities are done on a regular basis.

### Conferences

The faculty attends national conferences and postgraduates are encouraged to attend such conferences and present papers and posters

In addition, there is a well equipped library with the latest books and reputed journals

These journals and science directs Springer list one available round the clock online for the benefit of the students.





# Orthopaedics

The Orthopaedic Surgery Department at SRM Medical College Hospital has already made a niche for itself with people from the city and even far off places making a beeline for it. There are three units functioning with 120 beds with 75 beds for male and 45 beds for females. The faculty consists of senior academicians having rich experience in teaching and clinical practice. From the academic year 2011-12, PG course M.S was started. Faculty members attend national and state orthopaedic conferences and present papers. The Department participat actively in the trauma life support workshop held in October 2006.

## Curriculum

A streamlined teaching programme has been designed for the undergraduates and postgraduates who are posted to the Orthopaedic Department in rotation. Clinical demonstration classes take place in the out patient department, and the students are trained through clinical examination and presentation. Students are encouraged to interact with the faculty members to create an atmosphere of trust. Orthopaedic cases of clinical interest are discussed at the CME programmes. The students are exposed to pre-operative planning where surgical cases are discussed in great detail. The department offers MS in Orthopaedics

## Clinics and facilities

The department has a full fledged out patient department. But the main focus is in the orthopaedic ward. The spacious, 120 beds orthopaedic ward dedicates 45 beds to women and 75 to man. Since the hospital is next to a busy highway, lots of RTA cases arrive in casualty and an orthopaedic specialist is on 24 hours duty. The ward is well staffed and has all the instruments necessary for handling simple to compound fracture cases.

For polytrauma patients the department has ICUs where blood pressure, pulse rate, heart rate, saturation and perfusion are monitored. Three fully qualified plaster technicians, and support personnel like nurses take care of the patients in the ward and ICUs. There are three theaters exclusively for Orthopaedics of world class standard with Laminar air flow, HEPPA filter, 'C' arm, Maquet Operation Table Power drills and all the other instruments for surgery and several types of operations take place:

- Interlocking nails
- Dynamic hip screws
- Hemiarthroplasty
- Open reduction with internal fixation with plate and screw
- Arthroscopy surgery on knee and shoulder joints
- Spine: Laminectomy and disc excision and fusion with instrumentation
- External fixators of various types
- Total knee and total hip replacement

## Extensive references

A journal club benefits young orthopaedic surgeons. The department library has all the latest editions as well as back volumes of national and international journals.

Weekly review meetings are conducted and the previous week work analyzed and the next week plan is discussed, with all faculty Professors, Associate Professor, Assistant Professors, Senior Resident and Post Graduate students.



## Otorhinolaryngology (ENT)

One of the largest departments in the SRM Medical College Hospital, the ENT Department has qualified and experienced faculty members. This being one of the most complex sciences, students need to build their medical knowledge of the latest treatments that have met with success in the world. Faculty members too, continuously update their knowledge by participating in regional and national conferences in otorhinolaryngology. The department offers MS in ENT.

### Clinical and other facilities

The department has both in-patient and out-patient services. The out-patient section has spacious examination rooms and clinical demonstration rooms. The in-patient ward can accommodate major and sophisticated surgery, giving students plenty of exposure to clinical material for study.

The operation theatre has sophisticated equipments such as an operating microscope and a video camera to perform middle ear surgeries like mastoidectomies, stapedectomies and ossicular reconstructions. Phono surgeries are also performed for voice disorders. For precise sinus and nasal surgeries, nasal endoscopies are performed using advanced video endoscopes. Head and neck surgeries like laryngectomy, maxillectomy and neck dissections are being performed regularly. Besides these, the hospital conducts a number of routine surgeries, like tonsillectomy, tongue-tie release, earlobe repair and correction of nose deformities.

### Specialized services

The department is one of the few in the state that is equipped with electronystagmography for assessing patients with vertigo. Other features include:

- Out-patient department equipped with diagnostic endoscopy laboratory
- Audiology wing with a sound-treated room
- Facilities for pure tone audiometry, speech audiometry, special tests audiometry
- Speech therapy and stammering clinic
- Rehabilitation clinic in coordination with the Paediatrics Department

### Community outreach

The department actively takes part in the health camps conducted by the SRM medical college. Rural area camps are conducted in and around Chengalpet and Sriperumpudhur.



## Obstetrics and Gynaecology

Students need to be prepared to bring new life into the world, regardless of their specialty. The obstetric team handles antenatal and gynaecological cases, including normal deliveries and caesarean section. It also handles all obstetric and gynaecological emergencies round the clock. Standing alongside a full-fledged team comprising of a duty obstetrician, a junior resident and well-trained staff nurses, students will gain a flair in taking care of deliveries including caesarean sections and other emergencies.

Faculty members are trained and highly motivated. They specialize in managing high-risk pregnancies, sonology, endoscopic surgeries, laparoscopy and hysteroscopy. They continuously update themselves by participating in national conferences and presenting scientific papers.

### Curriculum

The undergraduate program imparts medical students with a base in the field of obstetrics and gynaecology. The curriculum has a fine balance of lecture classes, clinical case demonstrations, discussions, tutorials and practical classes. The department offers MS in Obstetrics and Gynaecology.

### Clinics and facilities

The department has both in-patient and out-patient clinics. While the out-patient clinic takes care of nearly 1700 cases a month, the in-patient cares 170-190 cases a month.

The out-patient clinic handles regular antenatal, gynaecological and infertility patients. Patients are screened for cancer with pap smears and colposcopy directed biopsies.

The labour ward is the centre of the department's activities, including normal vaginal deliveries, instrumental deliveries and caesarian deliveries. Elective gynaecological surgeries include total abdominal hysterectomy, vaginal hysterectomy, total vaginal hysterectomy, laparoscopic-assisted vaginal hysterectomy, laparoscopic sterilization, diagnostic and operative laparoscopy, and diagnostic hysteroscopy. Besides this, the department has separate clinics for cancer screening, infertility and family welfare.

The Family Welfare Clinic conducts laparoscopic sterilization, puerperal sterilization, MTP with TAT/Lap sterilization on an average of 25-30 cases per month. On a preventive note, the department spreads awareness on temporary contraceptive methods, such as Cu-T insertion, contraceptive pills and condoms.

### Community outreach

Regular camps are conducted in surrounding villages along with the Community Medicine Department to provide good antenatal care and to screen for high-risk pregnancies and cancer.

### Research

Faculty members never miss an opportunity to submit scientific papers on the research that is being done at national level conferences. For instance, Dr. M. Nirmala, assistant professor of obstetrics and gynaecology, presented papers in AICOG 2007 and ISOPARB 2007. Several research projects are also underway, including projects on:

- Entonox in labour analgesia, by Assistant Professor Dr. Anuradha
- Anti-phospholipid antibody syndrome in recurrent pregnancy loss, by Assistant Professor Dr. Maya Menon
- Human papilloma virus in cancer cervix, by junior resident Dr. Merlin

### Looking ahead

Students can look forward to new equipment and procedures that the department is incorporating, such as:

- Thermo choice for the treatment of dysfunctional uterine bleeding
- Uterine artery embolization for the treatment of fibroid uterus
- Intra-uterine insemination and in-vitro fertilization for the treatment of infertility
- Resectoscope for operative hysteroscopy



## Ophthalmology

The department is headed by a Professor and supported by experienced faculty.

The department is fully equipped and the following facilities are available.

1. Computerized vision testing
2. Contact lens fitting
3. Cataract surgery – Intra ocular lens implantation including phaco emulsification
4. Glaucoma evaluation and management
5. Computerized field testing
6. Squint and Paediatric ophthalmology
7. Laser (YAG & Retinal) treatment
8. Diabetic retinopathy evaluation and management
9. Fundus Fluorescein angiography
10. Plastic surgery of eyelid
11. Eye bank and corneal transplantation
12. Uvea and retina clinic
13. Neuro ophthalmology clinic
14. Community ophthalmology
15. Wet lab training for postgraduates

Our teaching programme consists of 100 classes including seminars and theory classes that are conducted with power point projection at A.C lecture halls. Clinical demonstration classes are held in batches of twenties so that personal attention can be given to students.

We conduct monthly four eye camps organized by Community Health Department. We bring patients from Kanchipuram district. Food, stay, medicines and surgical treatment are given free to the camp patients. The department offers MS in Ophthalmology.

Recently our college has been recognized by MCI for post graduate course in ophthalmology. We admit 2 M.S.(Ophthalmology) students annually. We also run B.Optom course with an intake of 15 students every year. We have 232 books in central library and 110 books in departmental library. We have international and national journals in ophthalmology. We also have access to many E- journals from our library.

As our department has experienced faculty with equipment needed for postgraduate course and adequate patient inflow, it fulfills the requirements of any well recognized medical college in India.

### Publications

1. Prevalence of clinical Vit.A deficiency amongst preschool going children in rural areas of Kancheepuram district of Tamilnadu. - Indian journal of Maternity and Child health Jan - Mar 2011
2. Individual and additive mydriatic effect of Tropicamide with phenylephrine and Flurbiprofen in diabetic and non diabetic patients.
3. Mydriatic effect of Tropicamide with propracaine and Xylocaine-A mono and combination effect International Journal of pharma & Bio statistics

### Ongoing projects

1. Evaluation of intraocular pressure in pregnant and non pregnant women
2. Role of Vit.E in Diabetic Retinopathy progression



## Anaesthesiology

Many of the departments in a medical college, especially the surgical specialties, depend on the services provided by the Anaesthesiology Department. These include general surgery, orthopaedics, obstetrics and gynaecology, otorhinolaryngology, dentistry, ophthalmology and super specialties such as plastic surgery, urology and neurosurgery.

Administering anaesthesia requires skill. And who better to instruct you than our faculty which has more than 25 years of experience. The academic and clinical team comprises several able assistant and qualified anaesthesiologists. Students will be witnessing our expert team that caters to 12 operation theatres and extends ancillary services to the surgical ICU and expertise to the respiratory ICU. In addition our anaesthetists attend MRI suites where patients are sedated and monitored during MRI. Many psychiatric patients undergo electro convulsive therapy (ECT) for which specific general anaesthesia is given in minor the operations theatres.

There are 5 post graduate students enrolled in the department from this academic year. The extensive academic program in the department consists of didactic lectures, journal reviews, symposiums and case presentations. We encourage and motivate our students to participate in conferences, conduct research and do paper presentations. The department offers MD in Anaesthesiology.

### Conferences

The faculty members constantly upgrade themselves by attending national and zonal conferences.

The HOD Dr. P. Karunanithi has been awarded the Certificate of Honour for his meritorious service and professional expertise in Anaesthesiology during MACME 2011 organized by Anaesthesia CME Society and Institute of Anaesthesiology and Critical Care, Madras Medical College, Chennai, on 12<sup>th</sup> June, 2011.

The department regularly comes with publications in national and international journals. Till date, our faculty has 4 publications in international and 4 national publications in journals.

### Clinics and facilities

Of the sixteen operation theatres, three have the latest laminar flow stainless steel system with an exhaust system for anaesthetic gases. There are two minor operation theatres – one in the surgical out-patient department block and one in the labour room to cater to minor cases and day care surgeries. Both are equipped with facilities on par with any other tertiary referral center. The department manages a centralized supply of oxygen, nitrous oxide and vacuum from a gas manifold. The monitoring equipment like the multi-parameter monitors and side stream capnography machines is of high standards.

Separate pre-medication and recovery rooms are aptly located, adjacent to the main operation theater. The entire block is maintained a sterile zone through periodic fumigation. Sterilization is double with periodic bacterial contamination detection by means of procedures dictated by the Microbiology Department.

### Hospital services

The Anaesthesiology Department meets the needs of several medical procedures. Our anaesthesiologists handle both elective and emergency cases on a daily basis. Several of these cases involve the fields of obstetrics and gynecology, orthopedics and general surgery. Every patient is given an assessment before anaesthesia is administered.

Several cutting edge procedures are routinely undertaken, including laparoscopic appendicectomies and cholecystectomies, Lap-assisted vaginal hysterectomies, hysterectomies, hysteroscopies, thyroidectomies, mastectomies, meshplasty, surgical gastroenterology cases, hemiorthoplasties, total knee and total hip replacements, orthopaedic corrective surgeries, tendon repairs and fracture fixations.

Anaesthesia is also provided for neurosurgical procedures, such as intracranial tumor excision, shunt surgeries and spine surgeries. Some procedures that involve children require special care. Many of the procedures involve airway and otorhinolaryngological procedures such as septoplasty, FEES, adenotonsilectomy, mastoidectomies, laryngeal and hypopharyngeal biopsies. Our dedicated ophthalmic theater has seen over 900 cases in the past year.

The department also provides assistance in the management of ventilator patients and in the immediate post-operative management of patients in the surgical ICU. Along with the team of specialists and teaching faculty, students will find exposure to all types of anaesthesia techniques such as regional, general, airway anaesthesia, total intravenous, hypotensive anaesthesia and nerve block, as well as combinations of these techniques.





## Higher Specialties

- Cardiology / Cardiothoracic Surgery
- Nephrology
- Neurology and Neurosurgery
- Plastic and Reconstructive Surgery
- Urology



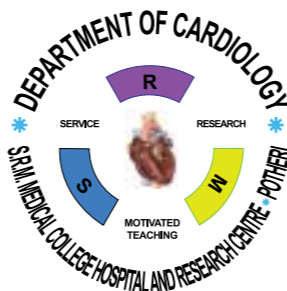
### CARDIAC-CATHETERIZATION LABORATORY



### CORONARY ANGIOPLASTY IN PROGRESS



### INTENSIVE CARDIAC CARE UNIT



## Cardiology Department

The Cardiology Department of SRM Medical College hospital was started in July 2006. The department was upgraded with non invasive investigations (TMT, Echocardiogram, Holter, Ambulatory BP Monitoring) in 2007. Comprehensive cardiac interventional services were started in 2009 with the installation of state-of-the-art, cutting edge technology, flat panel catheterization laboratory. The cath-lab was dedicated by Shri. Ghulam Nabi Azad, Hon'ble Minister for Health and Family Welfare, GOI, New Delhi.

#### CARDIOLOGY FACULTY

The Cardiology Department is headed by a Senior Cardiologist, assisted by a team of experts.

#### CARDIAC SUPER SPECIALTY SERVICES

The Cardiology Department is comprehensively equipped with acute care services and state-of-the-art investigation facilities comprising of 1) 24x7 Emergency Coronary Care Unit 2) Out-Patient Services 3) Specialty Clinics a) Heart Failure Clinic b) Preoperative Assessment Clinic 4) In-Patient Services a) General Ward, b) Special Wards 4) ECG 5) Digital X-Ray 6) TMT 7) Echocardiogram (TTE, TEE, Stress Echo) 8) Holter Analysis 9) Ambulatory BP 10) Cardiac Cathlab- Radial Coronary Angiogram, Primary Angioplasty, Complex Angioplasties, Permanent Pacemaker Implantation, Balloon Valvuloplasties – BMV / BPV / BAV, Device Closures – ASD / VSD, Peripheral angioplasties – Carotid, Renal, etc., AICD & CRT implantations.

#### PUBLICATIONS / PRESENTATIONS

The faculty have so far published 78 articles in the reputed International & National journals and presented 208 papers in the National & International Cardiology Conferences.

#### ACADEMIC ACTIVITIES

Guest Lectures by International Faculties: 1) Dr. G.H. Mudge, Brigham women's Hospital, BOSTON, USA. 2) Prof. Ramiah Subramanian – Georgia Health Science University. 3) Dr. B. Saravanan; USA.

Awards: Prof. S. Elangovan was awarded The Life Time Achiever Award by Chemco Alumini, Chengalpattu/ Best Teacher award in Cardiology by Tamil Nadu Dr. M.G.R Medical University/ Award for contribution in development of Tamil by Tamil Nadu Dr. M.G.R Medical University

Prof. V. Jaganathan was awarded The Life Time Achievement Award by Chemco Alumini, Chengalpattu.

Dr. M. Kathiresan received appreciation certificate for publishing an article.

#### RESEARCH

Cardiology Department and Interdisciplinary School of Indian System of Medicine in collaboration with Department of Science & Technology of Government of India, is conducting a project called "A Novel Herbal Formulation for the Prevention and Management of Coronary Heart Disease."

#### DM CARDIOLOGY PROGRAMME

The continuous growth in terms of faculty, patient and procedure volume and round the clock primary angioplasty services, led to approval of DM Cardiology super specialty program by MCI in 2011. The first DM cardiology postgraduate joined the course in September, 2011.

## Cardio Thoracic Surgery Department

The Cardio Thoracic Surgery Department was started in 2008 with the noble vision of providing outstanding patient care based on the principles of innovation and compassion. Dr. K.Harshavadhan is the Professor and Head of the Department having a vast experience in the field of Cardiothoracic Surgery including from closed heart surgeries to heart transplant with a personal record of 19,000 operations. Under his expert guidance and meticulous planning a world class department took shape over a period of one year.

The first open heart surgery was done in May 2009. Adult and paediatric cardiac surgeries are being done at present. In the last two years, nearly 300 open heart surgeries were done. The state-of-the-art operation theatre complex comprises of 4 modern theatres with excellent facilities for routing as well as transplant surgeries, and are all equipped with the latest technology like SARNS 8000 heart lung machines, anaesthesia work station, advanced invasive monitoring, Intra Aortic Balloon Pump etc., To ensure world class results, there are 2 spacious post operative ICUs each with 10 beds and one step down ICU.

The department is always ready on 24 hours basis to tackle any complex chest traumas and cardiac problems requiring surgical management to reach the unreached and under-privileged. So, surgical charges are priced at affordable rates. The department provides consultative and operative services on an elective and emergency basis requiring advanced cardiac and thoracic surgical care such as:

- Coronary bypass surgery, including total arterial grafting and off-pump surgeries.
- Cardiac valve repair and replacement
- Correction of congenital cardiac abnormalities in adults.
- Closed heart surgeries, pericardectomies.
- Lung lobectomy and pneumonectomies
- Management of thoracic trauma.

Our postoperative cardiac ICU is managed by a cardiac surgical and anesthesia team with 24x7 coverage. A total of 375 patients, aged 8 months to 78 years underwent major cardiac surgeries. This is a vital life saving department of SRM Medical College Hospital and Research Centre. The department offers super specialty M.Ch course in cardiothoracic surgery.



# Nephrology

## **FACULTY**

A strong team of experienced five nephrologists, treat the patients and teach the students. The department offers super specialty DM in Nephrology.

## **NEPHROLOGY**

'Powered by knowledge, driven by values' is the motto of the nephrology department. This is reflected by the faculty's and students' approach to this discipline. The students are trained to recognize and treat kidney diseases and kidney failure at the earlier stages, preventing the progression of kidney disease, as per guidelines issued by National Kidney Foundation in USA. Our faculty members continually update themselves at national and international forums to stay updated on the latest development in this field.

## **CLINICAL SERVICES**

The Department has both out-patient services and a state-of-the-art hemodialysis unit with 35 stations. Approval for R.T.S. has been obtained for GOTN and five transplants are being performed. Students are taught through a mixture of interactive sessions and demonstrations.

## **DIALYSIS**

It was inaugurated by Shri. Ghulam Nabi Azad, Hon'ble Union Minister for Health and Family Welfare GOI, New Delhi, on 11-11-2011. This year, over 9000 hemodialysis would be done.

## **RESEARCH**

Currently a project to study The Epidemiology of Renal Calculus Disease in and around Kattankulathur is underway along with the Urology Department. Another study, recently concluded, examines nail growth in Chronic Kidney Disease. These studies offer vast opportunities in epidemiological study of chronic kidney disease identification in the community.

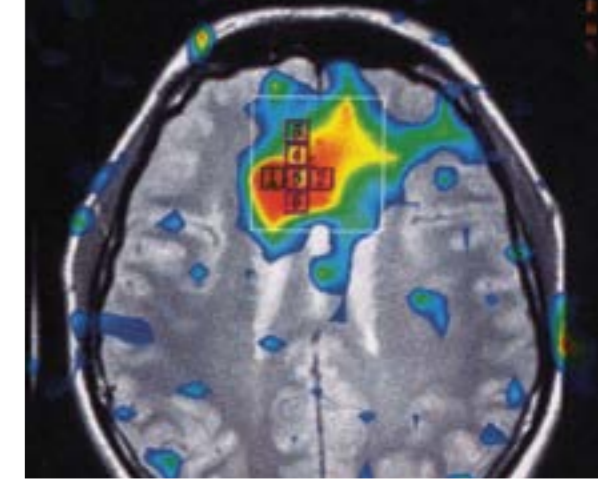
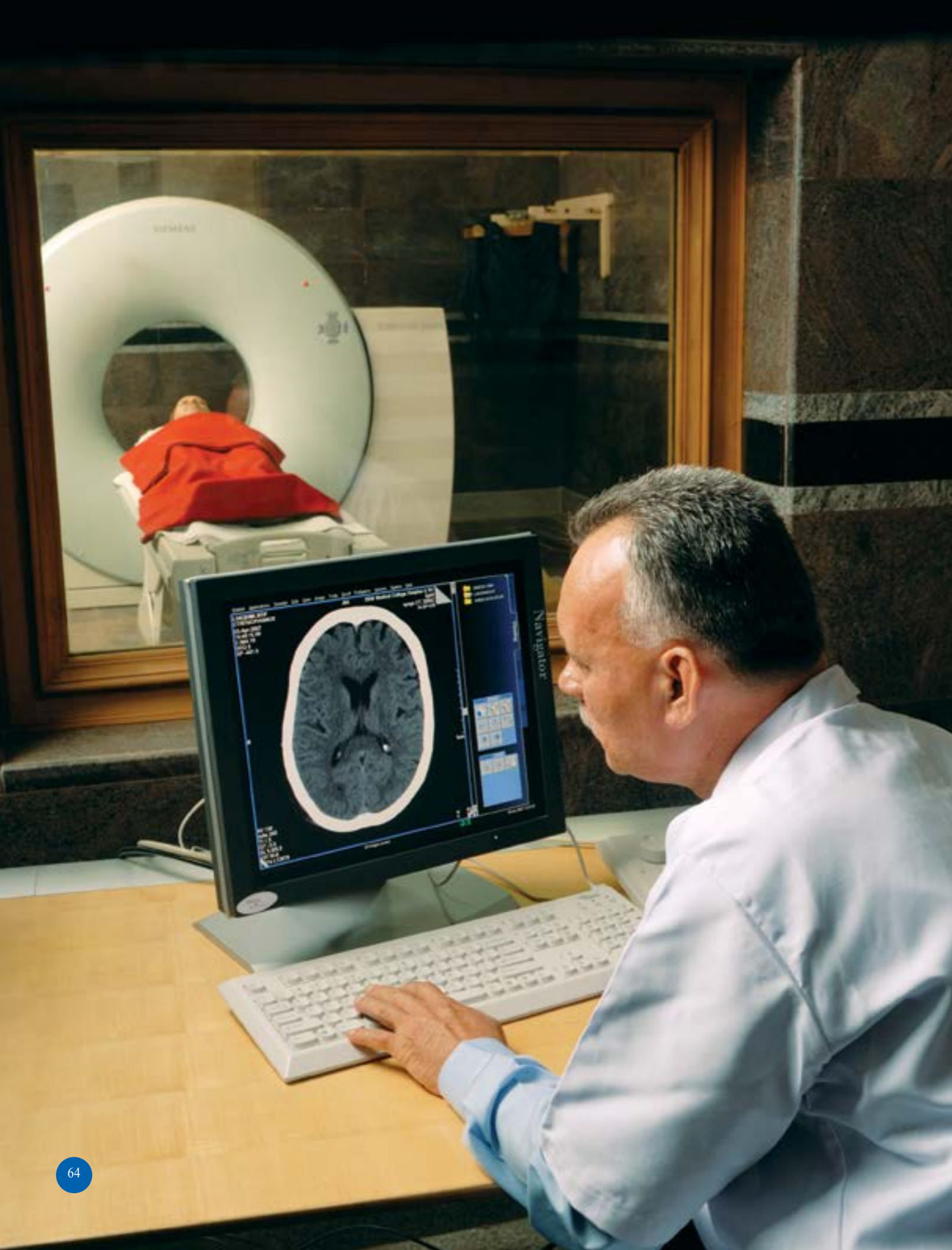
## **OUT-PATIENT**

We have daily Nephrology OP same day visit 3 special clinics, namely Cardio Renal, Diabetic Nephro and Transplant Clinics.

## **IN PATIENT**

The In-patient strength is 20. The occupancy rate is above 80%. We do Renal Biopsy regularly.





## Department of Neuro Surgery

The Department of Neurosciences was started in SRM University in the year 2005 consisting of one Neurosurgeon and one Neurologist with two assistants. In the beginning only out-patient services and 24 hours trauma care services were available. In the year 2006, neurosurgical procedures were started.

In the year 2010, the department was separated into Neurology and Neurosurgery divisions to render better and efficient care to the patients.

At present the Department of Neurosurgery renders 24 hours trauma care services and continuous neurosurgical care for the patients along with 6 days out-patient services. The department is well equipped with latest facilities and is governed by experienced senior faculty and sophisticated instruments like operating microscopes, strikers drill systemic C-Arm facilities etc. We also have an excellent Radiology Department (Neuro-Radiography section) equipped with CT Scan, MRI Scan, Ultrasound Scans, X-ray facilities and angiogram facilities. The department offers super specialty M.Ch in Neurosurgery.

### **Brain Surgery**

All cases of brain tumors, congenital lesions, vascular disorders along with functional neurosurgery for epilepsy are being carried out regularly.

### **Spinal Surgery**

Spine surgical procedures for spinal cord tumors, congenital abnormalities, trauma, disc prolapse, spinal instrumentations are also being performed.

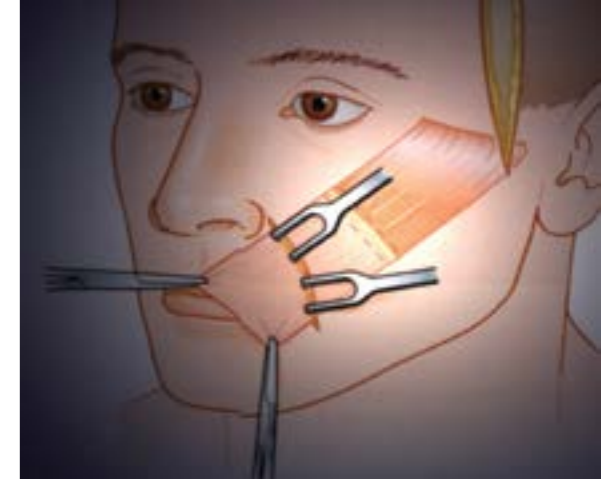
### **Neuro Intensive Care**

We have a dedicated Intensive Care Unit for acute trauma and neurosurgical cases, equipped with the latest monitoring facilities and 24 hours medical coverage by qualified and experienced duty doctors with Neuro ICU with separate special wards.

Academically, our department takes active participation in teaching and CME Programmes and has presented papers in both international and national conferences.



## Plastic and Reconstructive Surgery



Plastic surgery, better associated to cosmetic surgery by people at large, is intended to restore form and function of the individual. The specialty as such is not restricted to any anatomical or age boundary making the specialist Plastic Surgeon invisible to general public. Plastic surgery can give people their lives back, restoring appearance, functionality and mobility. The spectrum of diseases covered by a plastic surgeon is not bound to a single organ or system as in other specialities, but transcends the boundaries for the well being of the patient.

We are a team of plastic surgeons with a mix of experience and energy to provide excellent plastic, reconstructive and aesthetic surgery services to the society.

The department was started in 2005, with faculty who are experts in this field.

The department has gradually grown in size both in number of faculties and clinical cases.

The following are the broad types of cases managed by the department.

1. General plastic surgery
2. Congenital Anomalies Correction
3. Hand injuries
4. Cosmetic surgery
5. Burns reconstructive surgery
6. Wound management

### CLEFT LIP



### POST CANCRUM ORIS DEFECT RECONSTRUCTION





## Urology

The surgical aspects of diseases of urinary tract are dealt by the Urology Department. Stone diseases, urological malignancies like carcinoma bladder and carcinoma prostate are treated regularly. Endourological surgeries are keyhole surgeries.

The Urology Department has facilities for most of the urology surgical procedures. The faculty consists of one Professor and three Assist and Professors.

Clinical facilities: Individual attention is given to students and they are exposed to endourological surgeries, major open surgeries, Endourological procedures include TUR (P), URS, OIV and PCNL. The ESWL facility is available for lithotripsy. Laparoscopic surgeries and major open surgical procedures are also conducted. Soon, a renal transplant program involving both cadaveric and live related transplantation will be started. A superspeciality course in urology is to be started shortly as well.

It is also planned to get Urodynamics and Laser. The Nephrology Department has full support for managing Renal Failure Patients. The Department offers duper specialty M.Ch in Urology.

### Research

Both students and faculty are encouraged to study every aspect of urology. Since stone disorders have become a common occurrence, the Department is conducting an epidemiological study and other research projects on stone diseases.



## College of Dentistry

- Dental Surgery
- Oral Medicine and Radiology
- Oral Pathology
- Oral and Maxillofacial Surgery
- Periodontia
- Pedodontia
- Oro Maxillofacial Prosthodontics and Implantology
- Conservative Dentistry and Endodontics
- Orthodontics and Dento Facial Orthodontics





## Dental Surgery

The basic aim of the college of dentistry is health-oriented teaching that emphasizes the prevention of oral diseases. All students are inculcated with the enthusiasm for not just curing of dental diseases but also their prevention. The college actively spreads this message in the surrounding community. An experienced faculty team is always accessible to the students.

The SRM Dental College, Ramapuram, offers courses for the undergraduates B.D.S. (5 year program) as well as the postgraduates M.D.S. (3 year program in 9 different specialties). The Kattankulathur Dental College offers B.D.S. Programmes and has plans to offer MDS in the near future.

### Clinics and facilities

Access to the well equipped laboratories and plenty of clinical materials in the form of patients, arouse the passion to master the skill for dental surgery in students.

Both the colleges, houses excellent preclinical laboratories to cater to the needs of all the departments and to provide a training ground for the students before they step into the clinical scenario. The clinics have several electrical chairs with portable suction apparatus, micromotors and airtors.

The clinics offer all kinds of latest treatment modalities from fillings of all types, bleaching, prosthetic replacement of missing teeth with removable/fixed dentures, implants, periodontal surgeries with or without bone grafts, surgical removal of the teeth, biopsy and excision of other small pathologic lesions, root canal treatments to orthodontic correction of malaligned teeth. Procedures are carried out under local or general anesthesia depending on individual requirement of cases. Major surgeries, like fracture treatment, cosmetic surgeries, temporomandibular joint surgeries and cancer treatments are also done. The college and hospital have adequate facilities for all kinds of diagnostic measures like biochemical examination and radiography.

### Outreach program

You will find involvement in the regular camps we conduct in schools and rural areas a fulfilling experience. These camps form part of the community dentistry program. The camps spread awareness of the importance of dental health. Free toothpastes, gum paint and mouthwash are given to the needy.



## Oral Medicine and Radiology

Dentistry has grown with first leaps and bounds in the recent times. The Oral Medicine Department has been the base of dentistry making the first impression to be the best impression where the patient is first received and referred to the various other departments.

The department boasts of a spacious 9000 sq. ft. ultra modern centrally airconditioned out-patient set up. The out-patient department has 35 fully functional dental chairs and 3 intraoral X-ray units and 1 panoramic radiograph, cephalometric and TMJ tomography unit.

The department has professors and dedicated teachers to train the students of final year and 3rd year B.D.S., in the ever changing and advancing procedures in clinical oral medicine. Cancer screening and treatment of submucous fibrosis are done here. Specialized investigation procedures like sialography are also taken up. Research activities are oriented towards cancer and precancerous patients.

The department is aided by other post graduate teachers who create a student friendly environment which encourages research studies by student and interns who are supported by a well equipped department library.

The department includes a spacious comfortable reception, medical records, radiology with an intra oral (Intra Oral Peri Apical) radiographic unit and extra oral radiographic unit (OPG / cephalometric). CT and MRI are done in collaboration with the medical college.



## Oral Pathology

The science of oral pathology can trace its roots to the first golden age in dentistry back in the later 1830s, when the study of microscopic images of oral diseases grew in prominence. Today, students armed with the latest techniques and diagnostic tools, sharpen their ability to perform diagnostic work on a vast number of cases. The students will be trained by the best of faculty with a reputation for inspiring students to excel.

The departments in Ramapuram and Kattankulathur encourage both students and faculty to actively participate in national and international specialty conferences, symposia, workshops and slide interaction programs and present scientific papers and posters and so expand their horizons. In fact, the faculty and students have brought laurels to the department in the form of prizes and prestigious national awards for scientific papers and paper presentations at conferences.

### Curriculum

The curriculum is meticulously planned to include the latest developments in dentistry so that students stay in tune with the international scenario. Both theoretical base and clinical practice are given equal importance. Training is a part of the curriculum. The students are also deputed to interdisciplinary postings in cancer centers and dermatology clinics for clinical exposure in related fields of study.

The undergraduate program imparts extensive training to B.D.S. students in the areas of tooth morphology, oral histology, oral pathology and forensic odontology during the 3-year course.

The 3-year postgraduate program in Ramapuram campus has an exhaustive curriculum involving training in basic sciences, haematology, oral oncology, histopathological laboratory techniques, interpretation of histopathological slides, and forensic odontology. The curriculum encourages research beyond the coursework, which can be published in approved journals. Postgraduate students will find helpful guidance and motivation with the experienced faculty members and the substantial resources that are available to them.

### Laboratories and facilities

The library has number of useful books and journals that will prove invaluable. The faculty and students also have access to seminar halls and audiovisual equipment for their sessions. For their practical sessions the department has several spacious and well equipped histopathology labs processing an average of 90 cases per month. 1000 biopsy / cytology cases have been taught in 3 years. • Histopathology Laboratory

- Tooth Morphology Laboratory
- Oral Histology Laboratory
- Oral Pathology Laboratory
- Research Laboratory
- Clinical Pathology Laboratory

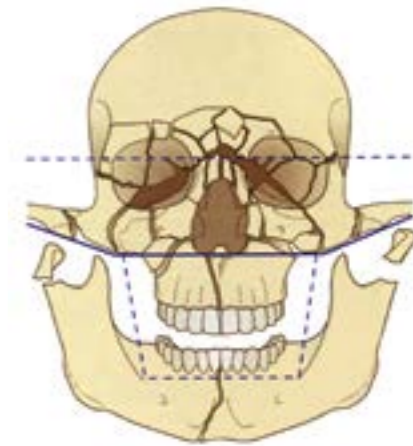
Besides these, the department boasts of a molecular pathology laboratory and an immunohistochemistry laboratory with high-end equipment including a master cycle gradient, a biophotometer, a specialized antigen retrieval kit and numerous sophisticated accessory instruments.

### Research

The oral and maxillofacial pathology department has the unique distinction for being the hub of all research activities conducted in SRM Dental College, Ramapuram. The postgraduate research laboratory has some edgy features, like a high-end specialized microscope with polarizing kit and dark field attachment, digital camera attachment, software for image processing and image analysis of patient specimens (smears and tissue sections), and a multi-viewer microscope that accommodates up to five users. SRM University signed a Memorandum of Understanding with the Health University of Czech Republic to facilitate student and faculty exchange programs and joint research. These are some of the current research projects:

- Joint venture study on the effects of smoking on periodontitis by the Health University of Czech Republic and the Oral Pathology Department that compares smokers and non-smokers in India and the Czech Republic
- Identifying the incidence of oral lesions in patients with bronchial asthma using a wide range of anti-asthmatic medications, from systemic drugs to inhalers
- Evaluating therapeutic effects of sesame oil and the role of oil pulling on oral disease states and assessment of prognosis
- Short term research projects in the field of Forensic Odontology for postgraduate students
- Established museum displaying well crafted anatomical / histological / pathological models and rare specimens





## Oral and Maxillofacial Surgery

The science of oral and maxillofacial surgery can have a huge impact on those who live with facial disfigurement. In many places it is considered to bridge medicine and dentistry. As such, practitioners will have to work closely with other specialists in pathology, dentistry, neurology, plastic surgery and others.

The department at Ramapuram provides cutting edge super specialty units like trauma care, cleft and craniofacial rehabilitation, head and neck surgical oncology and maxillofacial reconstructive procedures. Both students and faculty are encouraged to keep abreast with the latest developments in the dental world by attending conferences and presenting papers. Under the guidance of an experienced faculty team, students will be able to master the techniques that will enable them to practice this science, as well as acquire a keen sense of self-learning.

The department in Kattankulathur campus is supported by a strong faculty of seven experienced staff.

### Curriculum

The undergraduate program prepares students to acquire a sharp eye and the discipline that surgery demands. The course depends heavily on knowledge preparation, constant updating of the latest techniques, and study of the various cases that are seen. Students are given practical exposure through training with strict assessment.

Both undergraduate and postgraduate students are given all the guidance they need to specialize in this area of dental surgery. They are made familiar with the techniques and instruments at their disposal and readied for competing at the world level. Practical experience and research are a crucial part of the curriculum.

### Laboratories and facilities

The dental surgery departments are part of the multi-specialty hospital complex and have at their disposal a some of the most advanced facilities in dentistry. All the laboratories and wards are centrally air-conditioned, and the department houses a separate central sterilization area. Since the exodontia out-patient department treats a great many patients a day, the department also has a separate review out-patient unit. The department uses the facilities of two operation theatres (OT). A 5-theater complex includes minor and major OTs with advanced gadgets, as well as multi-specialty units that are equipped to international standards.

There are also exclusive specialty clinics for branches like cleft lip and palate, microvascular surgery, trauma care and TMJ surgery. Another unit for orthognathic surgery is being planned. The faculty members have the use of a seminar hall with audiovisual facilities to instruct the students. The department library is a great source of information with a collection of titles specific to this science by noted authors and subscriptions to journals.

The Kattankulathur campus is also well equipped with an operating theatre and post OP ward that is available in SRM Medical College General Hospital.

### Medical link ups

Students will be exposed to research activities and training at other hospitals and centers through the institution's collaborations. Specialty postings are given at various national and international training centers, like the Regional Cancer Center at Trivandrum, the Charles Pinto Cleft Lip and Cleft Palate Foundation at Trichur, and Apollo Hospitals, for microvascular surgery.



# Periodontia

'Prevention is better than cure' is the slogan of the Tamil Nadu health services. While the Periodontia Department gives the skills and the expertise to perform regeneration and implantation of lost periodontal structures for both functional and aesthetic reasons, its focus lies on prevention of such maladies in the first place. To this end, the department stresses on awareness and instructions to parents and guardians on the importance of maintaining good and healthy oral hygiene.

Team of qualified and experienced faculty are imparting and instructing students in the finer points of dentistry. The postgraduate staff members are skillful in clinical procedures and the latest surgical techniques. they

## Curriculum

The curriculum has been designed by the Dental Council of India (DCI), and faculty members use demonstrations to instruct students. Theory sessions are enhanced with audiovisual tools.

The undergraduate program, largely practical in nature, takes in 3<sup>rd</sup> and 4<sup>th</sup> year dental students as well as CRRIs. Students are trained in screening, diagnosing and treating patients who attend the out-patient department as well as in concepts of instrumentation. As students progress, they are given opportunities to assist in advanced periodontal surgeries performed by staff and postgraduates.

The postgraduate program in Ramapuram campus in periodontics extends over a period of three years. The curriculum aims at laying a strong foundation on applied basic medical sciences and mastering diagnostic and instrumentation skills. Students receive intensive training in all the clinical procedures, including the latest advancements, like soft and hard tissue reconstructive surgeries, periodontal plastic surgeries and implants. Each postgraduate student is academically trained in presenting at journal clubs and seminars. A dissertation has to be done as partial fulfillment of their curriculum. They are also encouraged to attend conferences, workshops and continuing dental education programs, and to present scientific papers at state, national and international conferences.

## Clinics and facilities

The department has all the facilities—in the form of spacious laboratories and clinics, equipment, dental chairs—that are needed to perform advanced clinical procedures. Patients are given complete periodontal care. The department is spread over two floors with separate clinics for undergraduate and postgraduate programs. The clinics have accompanying patient counseling rooms and lobbies where patients can wait comfortably. The sterilization chamber is equipped with adequate number of autoclaves (both front and top loading) and hot air ovens.

The highlight of the department is the surgical clinic in the postgraduate section, which will have regular operation theatre facilities with an airlock chamber. The surgical armamentarium includes an electro surgical unit. Regenerative materials, like bone grafts and GTR membranes and an implant kit, are readily available for routine use.

Like all other departments, periodontia has a seminar hall with multimedia facilities for student sessions. The department library provides the students with the latest editions of all periodontics and implantology books and relevant reference books. Updated journals and their volumes are available in the postgraduate library for student and staff use. Students have internet access to online journals in the general postgraduate library.

## Community healthcare

The postgraduate students are actively involved in spreading awareness of good oral health and good habits in the surrounding areas of the college. This awareness program is also taken to schools. Students will also be able to participate in various health camps the department organizes periodically for the community, under the guidance of able professors. All the dental services are provided free of cost in these comprehensive dental care programs.

## Research and consultancy

With the abundance of resources that the department has access to, students and faculty members have no problem taking up research initiatives based on clinical, immunological and microbiological studies. Research based on genetics, tissue engineering and implants are being planned for the near future. Currently, research work is underway on diabetic status and periodontitis, and periodontal status in spastic, mentally retarded and handicapped children.

Since periodontitis has been linked beyond doubt to the incidence of pre-term and low weight babies, a program has commenced to screen women from puberty to menopause for a period of one year with an aim to cover 5,000 women. All these women will be administered scaling every year on a preventive note. Another project screens patients before undergoing orthodontic treatment. Some scaling is administered prior to the commencement of orthodontic treatment and follow-up action is carried out every month for a period of two months as a study model.



## Pedodontics

Treating a young child is one of the most challenging tasks that a dentist faces. Pedodontics, the study of child dentistry, encompasses a variety of disciplines, techniques and skills that are adapted to the special needs of toddlers, children, adolescents and those with special healthcare needs. So students are trained in child psychology and techniques to take care of dental problems for children.

The department is supported by a strong staff team. Unique activities like Children's Day Celebration, Oral Health Awareness Week and camps are held at various near by schools. The department in Kattankulathur offers BDS program whereas in Ramapuram it offers both a BDS programe and a MDS programe in Pedodontics. It has all the facilities to make the students gain theoretical knowledge and exposure to practical cases.

### Curriculum

The undergraduate program imparts final year students with a thorough knowledge of the basic sciences and advanced learning techniques in clinical sciences through practical training that involves working on children. Internship is a core part of the training process as it puts you in a real world scenario. Students also receive advanced training in all the specialized care that children demand. Interns also attend community camps conducted in various schools and community centers that prepare them to render appropriate treatment.

### Laboratories and facilities

The bright and cheery department decor reflects the age of the patients. It also has a play area to put children at their ease. There are separate clinical and preclinical areas. Students will undergo elaborate preclinical tasks to learn the treatment techniques on dummy models before progressing to real patients. The department treats children at the outpatient center, giving students ample opportunities to observe and later train as final year students and interns.

### Research

The department is currently involved in a research project in collaboration with Dr. Leonardo Dos Santos Barroso, D.D.S., M.S.D., of Brazil, on revascularization of immature permanent teeth with a triple antibiotic paste.



## Oro Maxillofacial Prosthodontics and Implantology

The department deals with restoration of lost oral and dental associated structures using life like artificial substitutes to recreate lost function, aesthetics and other parts of the oro-facial region.

### Academics

The department educates the pre-doctoral and post graduate students to be competent in treatment and management of patients in comprehensive diagnosis, treatment plan and sequence of treatment in general prosthodontics therapy commonly found in general dental practices. Apart from educating the students, the department provides care for patients who require comprehensive and advanced phases of prosthodontics treatment. The department strives to achieve excellence in educating and treating the patient with prostheodontics needs.

### Training program

#### Undergraduate

The first two years of undergraduate training includes training of students in the basics of material science and laboratory procedures required for patient management in the clinical training years. Students are trained with didactic lectures, seminars and discussions, in various modalities of prosthodontic pcedures. Clinical and practical training of B.D.S. includes hands on working with emphasis on diagnosis and treatment planning of altered masticatory system in addition to various methods of replacement of teeth and associated structures.

#### Postgraduate

The department in Ramapuram offers a postgraduate training program (MDS) of three years, approved by the Dental Council of India. The program is designed to prepare students for a career in teaching and research and also for advanced and extensive training in the rehabilitation of completely edentulous or partially edentulous and maxillofacial patients, with conventional modalities as well as implant support prosthesis. The postgraduate program includes extensive clinical and laboratory phases of prosthodontics training in the areas of fixed, removable partial dentures, complete dentures, maxillofacial prosthetics and implant prosthodontics.

### Faculty

The department is well supported with a team of qualified and experienced professors, readers and lecturers for guiding undergraduates and postgraduates.

The department in the Kattankulathur campus is well supported by 3 readers and 7 lecturers. The department has a credit of 4 international and 25 national publications and 3 book contributions.

### Clinics and laboratories

The department consists of postgraduate and under graduate clinics and an Advanced Prosthetic Laboratory. The department is well equipped with ergodynamic designed, electrically operated dental chairs for clinical use. A separate implant clinical area with all required equipments for successful training in implant dentistry is also provided. A well equipped pre-clinical phantom head laboratory is also there with all the facilities provided to train in basic crown and bridge prosthodontics. A seperate laboratory for metal casting procedures and procelain work with the latest and finest equipments used for crown and bridge prosthesis and cast removable partial denture prosthesis is provided.

### Community services

The department offers free services to the people by giving treatment for poor patients and physically handicapped patients. In collaboration with the department of community dentistry, the department conducts free denture programs for poor and needy patients.

### Other supplement academic activities

In addition to the regular academic programs in the institution, the students are encouraged to attend various international, national and state level conferences, symposiums and workshops. Our students, over the years, have won various accolades and awards in scientific oral and poster presentations. The students and staff have also contributed research and clinical articles in various journals and scientific publications.

In the Kattankulathur campus, in a span of 2 years, the department has 65 dental implants and 2000 units of fixed ceramics crown in co-ordination with the state-of-art-ceramic laboratory. A number of cases in co-ordination with our state-of-art-ceramic laboratory. A number of cases in precision attachment tooth and implant supported over dentures and maxillofacial prosthesis have been delivered.



# Conservative dentistry and endodontics

Considered as the 'Evergreen' Department of Dentistry, the Department of Conservative Dentistry and Endodontics houses the undergraduate and post graduate clinics and is ably assisted by competent postgraduate and undergraduate teachers.

The department in Kattankulathur campus is supported by a strong team of 10 teaching faculty members. The department has the credit of national and international journal publications. The faculty has attended 142 national and international conference in the period of 5 years.

## Undergraduate

The first year B.D.S. students are taught extensively in basic dental materials and their clinical applications in the subsequent years. In the second year, B.D.S. students are made to perform various preclinical exercises in natural teeth followed by phantom head models. The B.D.S. students are also well trained to appear for the theory and practical exams. The clinical training starts from the third year where the students are encouraged to perform simple restorative treatments and get a feel of performing treatment procedures in patients. In the final year of dentistry, the students are advocated to perform complex restorations and anterior root canal treatment. Regular chair-side viva-voce are also conducted to enable the students to answer boldly and confidently in the clinical examinations. After successful completion of final year B.D.S., the students are instructed to undergo internship for a month and half during which they handle complicated restorative cases in a clinical set-up. Final year students and interns are encouraged to participate actively in various state and national conferences.

## Postgraduate

The postgraduate department at Ramapuram boasts international standards. The postgraduate course comprises of three years, in which the first six months are devoted for preclinical training. The students are then exposed to clinical cases and prepared to handle all kinds of restorative and endodontic cases. Further, as part of the postgraduate curriculum and library dissertation, postgraduate students are encouraged to attend various national and international forums. The institution has set the benchmark of becoming the first institution in India to give operative and endodontic training with the help of an endodontic microscope.

The undergraduate clinical area houses 50 chairs and the postgraduate clinical area has 18 fully electrical chairs. Separate sterilization area and ceramic laboratory are also provided for the benefit of students and patients. Preclinical laboratories with state-of-the-art phantom heads are also available for the students to hone their preclinical skills before their clinical work.

The department in the Kattankulathur campus spread out in 10000 sq.feet,45 fully operational dental chairs, library, seminar rooms, sterilization room and air conditioned surgical rooms. An average of 1500 patients are treated every month. CDE programs are once in 6 months. Endo club, Endo rule, golden hands are few among them.



# Orthodontics

The Department of Orthodontics and Dentofacial Orthopedics in Ramapuram started functioning in the year 1997. From its inception the department is striving for academics, clinical and research excellence with a vision of training the students to world class standards with its tag line "where smiles blossom".

The department in Kattankulathur was established in the year 2007.

## Faculty

Thirteen well qualified and experienced faculty members from the department teach the undergraduate and postgraduate students. His contribution to the development of the institution has been immense.

The department in Kattankulathur is effectively supported by a dedicated and understanding faculty team which provides necessary guidance and encouragement to students to deliver quality treatment to the patients.

## Infrastructure and Laboratories facilities

The department in Ramapuram has a total floor space area of 15,000 sq ft for the undergraduate clinic and postgraduate clinic in two floors. The undergraduate clinic and postgraduate clinic are fully air-conditioned and have 25 well equipped electronic chairs with individual suction and micro-motor. The postgraduate laboratory has a floor space of 700 sq. ft. and the equipment available include the Biostar, Polycane and Hydrosolder. The department has an exclusive seminar hall to seat 50 people, and includes facilities like LCD, slide and overhead projector.

The department in Kattankulathur has a sprawling area of 10,000 sq.feet, with 25 fully equipped electronic chairs, the department has a computer resources and AC VIP clinical sections. We have a well equipped lab with the latest instruments. We have a state-of-art photography room, cephalogram tracing room and sterilization room.

## Outpatient inflow

The clinical OP in Ramapuram has a good flow of patients with an average of 40 patients per day. Patients are treated using removable, functional and fixed appliances.

Clinical OP in Kattankulathur, has successfully completed more than 2000 cases till now. It is the only UG institution to practice lingual orthodontics on a regular basis. We have trained faculty to treat cleft lip and palate.

## Library

The department library in both the colleges are stocked with the necessary undergraduate and postgraduate books with adequate number of copies. The department subscribes to three international orthodontic journals and also has online support for the back issues of six major international journals.





## **Health Sciences**

- College of Nursing
- College of Physiotherapy
- College of Occupational Therapy
- College of Pharmacy
- School of Public Health



## College of Nursing

A challenging profession, nursing is dedicated to the service of humanity. The college trains and prepares skillful nurses with a healing touch. The ability to understand and soothe are as important to a nurse's career as expertise in medical techniques and care. The teaching methods reflect this with interactivity and a stress on communicating with peers and faculty through discussions, symposia, seminars, panel discussions and debates. The sessions are made lively using multimedia projectors and other media to explain theory. Continuing Nursing Education (CNE) programs give students every opportunity to listen to experts and upgrade their knowledge.

A dedicated and understanding faculty team led by a highly qualified and experienced Head of College provides necessary guidance and encouragement. The undergraduate and postgraduate students have separate faculty to give them individual attention. The postgraduate faculty members include experts in all the specializations. This motivated team continually keeps themselves abreast with conferences and journals.

### Curriculum

The dynamic syllabus is reviewed biannually by a board of students and ratified by the University's Academic Council and Indian Nursing Council. Since 2005, the curriculum has followed the Revised Indian Nursing Syllabus, which has the latest inputs. This ensures students get a balance of sessions and activities that include social work for all-round development. The hospital gives hands on training while regular field visits keep students on their feet.

The undergraduate program gives an understanding of health sciences with a strong foundation in the basic sciences. The syllabus is structured to teach Medical Surgical Nursing, Community Health Nursing, Paediatric Nursing, Psychiatric Nursing and Midwifery, English, Computer Science, Management, Education, Research and Biostatistics. The postgraduate program gives additional skills in administrative and management areas, while allowing you to specialize in Medical, Surgical, Community Health, Paediatric Nursing, Obstetrics and Gynaecology, and Psychiatric Nursing.

### Recognition

The college has been reaccredited by NAAC and was graded A, an important milestone in offering quality education. It is recognized by the Indian Nursing Council (INC), which periodically inspects the college teaching facilities that are provided to students. The college has obtained recognition from The Tamil Nadu Nurses and Midwives Council. The University Grants Commission (UGC) has also recognized the college, an important achievement that paves the way for research funding.

### Laboratories and facilities

Nursing students are given good facilities in all the laboratories. Fundamental laboratory, Maternity and Child Health laboratory, Community Health laboratory, Nutrition laboratory, Computer laboratory and basic science laboratories are placed at their disposal. A Student Nurses Association with both state and national membership takes care of the needs of the students. Besides the vast resources of the Central Library and the digital network, students also have access to the department library, which has specialized titles, journals and periodicals. The library also has internet access.

### Nursing alliances

Besides training at SRM University's General hospital, students can also intern at a number of allied hospitals including Vijaya Health Center at Vadapalani, Kanchi Kamakotti Child Trust Hospital at Nungambakkam, Institute of Mental Health at Kilpauk, Chrompet General Hospital.

### Research

The postgraduate students are encouraged to undertake research and interventional studies. The Ph.D Programme commenced from the year 2008 onwards.

### Community outreach programs

The nursing students are active in the community health center at Maraimalai Nagar and Mamandur. Regular immunization drives, maternity, childcare as well as treatment of minor ailments and referral services are carried out. The college collaborates with PHC Nandhivaram.

Students actively participate in malaria and filaria eradication, tuberculosis control and pulse polio programs conducted by national organizations. They also link up with social service organizations, like Lion's Club and Rotary Club to spread awareness and aid through eye, dental and blood donation camps.

### Alumni association

Nursing students will always find a place to come back to. Many of the institute's alumni are well placed in hospitals and healthcare centers in India, as well as in the UK, USA and the Middle East.

### New Programme

Post Basic B.Sc. Nursing programme started in the year 2009.





## College of Physiotherapy

The ability to move is as vital as life. No one knows this better than those specially trained by the SRM College of Physiotherapy. With an active involvement in the community, your skill will be called upon to enhance, study or even rehabilitate the movements of others.

The college is comprised of an experienced faculty team that specializes in Orthopaedics, Sports Physiotherapy, Neurology, Paediatric, Biomechanics, Cardiorespiratory, Hand Conditions, Community Rehabilitation and Obstetrics and Gynecology. Emphasis on interactive learning ensures that every student gains an interest in the science of physical movement and participates wholeheartedly in the theoretical and clinical sessions.

### Teaching Methodology

The sessions themselves will involve a balance of clinical training, bedside clinics, clinical meetings, journal clubs, clinical case studies and project work, as well as active community-based rehabilitation. Students will also find welcome exposure through guest lectures, panel discussions, symposiums, seminars and workshops for hands on training throughout the year.

The Continuing Physiotherapy Education (CPE) Program is specifically designed to arm postgraduates and CRRs with advanced physiotherapy knowledge, while at the same time remind them of the basics. Students are kept constantly on their toes through guest lectures by international faculty and regular workshops and seminars.

All round development is the mantra. Besides coursework, clinical trials and serving the people, the Physiotherapy College takes pride in the co-curricular and extra-curricular achievements of the students. With leisure and group activities, they never feel the burden of the curriculum. The College also conducts yoga classes to help students relax body and mind.

### Curriculum

The undergraduate program, Bachelor of Physiotherapy (B.P.T), introduces students to several fundamental areas of knowledge and skill in physical diagnosis techniques. It is designed to instill a love for the subject and to groom a student into developing an attitude that is essential for the practice of physiotherapy and proper treatment. Besides theory, emphasis is laid squarely on practical courses, clinical work, fieldwork, community visits and projects.

The Master of Physiotherapy (M.P.T) program explores the field of physiotherapy in depth, giving equal importance to application and research. The program instructs students in the application of advanced clinical sciences in problem solving, designing, implementing and monitoring appropriate therapeutic interventions. They undertake individual research projects and are taught to apply scientific principles to the concepts of health, illness and disability.

Students also work with the community through regular health education programs, field visits and extension activities that the college conducts. The curriculum is flexibly designed with a variety of elective options that they can choose with the guidance of a highly qualified faculty.

### Clinical training

Students will find clinical training an invaluable supplement to the theoretical sessions. At present, the college gives its students training through:

SRM Medical College Hospital • SRM Physiotherapy Outpatient Department • Maithree, DMD Centre, SRM Speciality Hospital, Ramapuram • The Banyan • Tie-ups with other hospitals like Kilpauk Medical College Hospital and Stanley Hospital • Guild of Service - home for the physically handicapped

### Physiotherapy clinic

The physiotherapy clinic, located in the SRM Medical College Hospital, has a full-fledged outpatient department equipped with modern facilities. The clinic caters to the disabled and the diseased and at the same time provides extensive clinical training for physiotherapy students. This gives students the chance to apply their knowledge of clinical science in problem solving and therapeutic interventions. Internships and research projects are also deeply encouraged.

### Laboratories

For those who have a passion for research, the college has five main laboratories equipped with the latest physiotherapy instruments:

- Exercise therapy laboratory with therapeutic exercise instruments
- Electrotherapy laboratory
- Massage and manipulation laboratories that have a manipulation and mobilization couch
- Biomechanics laboratory specially designed for studying the science of prosthetics
- A "GAIT LABORATORY" to ensure the rehabilitation of patients and promote research work of students will soon be up and running. The postgraduate research laboratory possesses the latest equipment including
- EMG biofeedback, Myomed and Neurocare for diagnostic EMG
- Treadmill
- Cycle ergometer
- Laser unit

### Research

Students are encouraged to actively involve themselves in academic research as well as projects for which funding can be arranged. Experienced faculty are always at hand to guide and assess your work. The faculty is encouraged to take up research that involves students.

### Library

Whether the students are looking for guidance and references, or simply for a casual read, the library provides the perfect environment. They will enjoy perusing the vast collection of books and multimedia CDs. The library also subscribes to over 50 Indian and international journals. The medline database opens up another world of information.

### Extension activities

Extension activities serve a fundamental purpose in learning community nursing. Bringing students close to real people will sensitize them through health awareness and community development programs and social work camps in nearby villages.

### Accomplishments

- Providing free physio care for the children of DMD CENTRE, at the centre itself by team of physios from SRM College of Physiotherapy
- Accredited with 'B' grade in the year 2006 by NAAC
- SIRPAM 2004, South Indian Regional Physiotherapy Conference organized with the sincere efforts of the Dean, staff and students of the Physiotherapy Department
- During the SRM 21st National Junior Athletic Championship in the college, took care of the 3,000 participating athletes. A clinic was set up in Jawaharlal Nehru stadium and 198 athletes were treated. An exhibition on sports, health and nutrition raised awareness among the gathered athletes and trainers on the latest trends in sports medicine and healthcare.

### Career

A vital cog in any medical team, a physiotherapist counselor provides patients with disabilities with a reason to live. Physiotherapists can practice individually or work as part of a group in nursing homes, hospitals, clinics and even fitness clubs. In the sports arena too, physios are gaining importance. Nearly 50% of the college's outgoing students are admitted by universities abroad to pursue their higher education.



## College of Occupational Therapy

Occupational Therapy is an area of medicine that steps beyond the 'prevention and cure' mantra to the maximal independence of the individual. It focuses on recuperation, giving confidence to people whose disability may be caused by a stroke, a mental illness, a physical and mental weariness because of cardiac or other illnesses or even a hereditary deficiency.

Occupational therapists must break through their patient's barriers and create a pathway for that person to return to normal life, at home and in the workplace. The therapist may design customized treatment programs or design special equipment that allows the disabled person to adapt to his disability.

Occupational therapy (OT) is a comparatively recent science, which has grown in popularity in the west. The demand for specialists is very high as people become more aware of the possibilities of science and how it can make a better way of life. As a student of OT you'll need to develop clinical skills and develop a flair for one-to-one communication. Towards this, the college has well-equipped clinics and learning aids for undergraduates and state-of-the-art research facilities for postgraduate students.

### International recognition

The All India Occupational Therapists Association (AIOTA) as well as World Federation of Occupational Therapists (WFOT) recognize SRM's occupational therapy program. These recognitions give a distinct advantage of being accepted at par in the world of medicine, which allows students to seek higher studies or employment abroad.

- The college has been accredited by National Accreditation Assessment Committee (NAAC)
- The University Grants Commission (UGC) has also ratified the course, which is vital for pursuing research projects
- The undergraduate course is recognized by the Academic Council of Occupational Therapy (ACOT)

The undergraduate course is also validated individually by these recognized international boards:

- American Occupational Therapist Association
- Council of Occupational Therapy Registration Board, Australia and New Zealand
- Health Professions Council, UK
- Department of Health and Children, Ireland
- Norway Board of Occupational Therapists

### Curriculum

The course focuses on a developing of both clinical and communication skills. Experienced faculty members maintain international standards using modern teaching aids. Students learn to assess and treat patients with physical and psychological disabilities.

Master of Occupational Therapy (M.O.T.) enriches students with not just clinical practice and theoretical knowledge, but by keeping in tune with recent advances in the field along with a systematic learning approach and application of research skills. The postgraduate course has core courses with many electives from which students can choose.

### Faculty

The college has a dedicated team of faculty members who specialize in orthopaedics, neurology and paediatrics. They involve the students in discussions, making sessions lively and interesting. The healthy student-teacher ratio also means the faculty can devote more time with each student.

The teaching method is enriched by the use of various multimedia like charts, models, demonstrations, audio-visual presentations, group discussions, case conferences and seminars. The faculty members do not stop there. They constantly update themselves through contact with other universities. They also present papers during the Continuing Occupational Therapy Education Programs.

### Paediatric clinic

This clinic gives opportunities to work with children who have special needs. The clinic also conducts sports day and cultural programs for disabled kids, bringing a smile to their faces. On an average, at least 100 children



find treatment at this clinic every month for handicaps ranging through Cerebral Palsy, ADHD, Autism, Down's syndrome, learning disabilities, mental retardation, congenital anomalies, developmental disabilities and seizure disorders. The students are involved during ward rounds, case conferences, parental counseling and guidance, group therapy for children, and self-appraisal groups for parents.

#### **Orthopaedics and neurology clinic**

This unit equips you with the use of assistive technology, home modification techniques and other adjuncts to OT practice. Standardized assessment tools are used to review functional abilities, activities of daily living, hand function and higher cortical function. This is normally a concern for people living with lower back pain, fractures, osteoarthritis, rheumatoid arthritis, peri-arthritis and neurological problems like stroke, head injury, as well as general medical problems like diabetes and obesity.

#### **Community based rehabilitation clinic**

The community based rehabilitation clinic conducts awareness and rehabilitation camps. This clinic brings students close to the community and improves their ability to communicate. Once the disability is identified, patients and their caregivers are given psychological support. They are also given simple exercises devices that let them adapt to their disability.

#### **Prosthetic and orthotic clinic**

This unit has all the facilities for the fabrication of artificial limbs, calipers, splints and braces according to patient's needs. These are then given to the physically challenged at a nominal charge or free of cost.

#### **Allied in healthcare**

Links with major corporate hospitals and rehabilitation groups give students the enormous benefit of hassle-free clinical postings and projects. The college has alliances with:

- Vijaya Hospital, Chennai (Neurology)
- NIMHANS, Bangalore (Neurology, Paediatrics and Psychiatry)
- Schiefflin Leprosy Research and Training Center, Vellore (Orthopaedics and Neurology)
- Maithree Special School, Chennai (Paediatrics)
- Rheumatoid Arthritis Care Center, Chennai (Orthopaedics)
- Dr. G. D. Boaz Memorial Hospital, Chennai (Psychiatry)
- Andhra Mahila Sabha, Durgabhai Deshmukh Hospital, Chennai (Paediatrics, Orthopaedics and Neurology)
- The Banyan, Chennai (Psychiatry)

#### **Community outreach programs**

The hospital and clinics conduct regular medical camps that provide counseling and screening for students in schools as well as community members with the help of the community health center. Students accompany skilled practitioners from the hospital to provide free services and to spread awareness. They are sensitized to people with special needs, especially children with learning handicaps.

The college also takes the effort to arrange for the rehabilitation of people with disabilities through vocational training and employment. Free aid and orthotics, like splints, are also provided. Owing to his skill as an artist Mr. Udaya Kumar, a physically challenged patient, has been successfully rehabilitated as a teacher of arts and painting.

#### **Research**

The College of Occupational Therapy, with its own laboratories and facilities, is well equipped to handle research. Here are some of the projects undertaken.

- Regular screening in schools to identify disabilities
- Hands-free toilet flushing equipment for amputee patients designed and presented by Dr. Sheeba Rajam at the Annual National Conference of AIOTA and awarded Best Adaptive Device
- Best Scientific Paper Award in the National Conference of AIOTA (All India Occupational Therapists Association) at Nagpur in 2008 awarded to student Ms. Vanitha

#### **Career**

An occupational therapist is one of the most sought after professionals in the UK, Australia, New Zealand, Canada and the US. Employment can be found in hospitals and a wide range of service organizations, rehabilitation centers, mental health centers, old age homes and special schools. Occupational therapists can also start their own practice or become consultants.

#### **Alumni**

Graduates can follow in the footsteps of the illustrious alumni who hold responsible positions in India and abroad. The alumni network has more than sixty members who provide support to the college by assisting at free medical camps and COTE programs. The alumni also give career guidance to the students.





## College of Pharmacy

With global revenues in healthcare touching trillions, the field of pharmacy is already one of the largest industries, and the current economic and lifestyle boom has led to an unprecedented demand for quality health services. SRM University sees great opportunity for skilled pharmacists in Indian and multinational companies that are investing in manufacturing, marketing and clinical studies of medication to meet global needs.

The department's goal is to mould outstanding pharmacy professionals using advanced teaching techniques and learning aids, as well as top-notch facilities. An energetic team of faculty members makes up a rather large department that is comprised of experts in many fields, like NDDS, HPLC, anti-cancer, anti-diabetic and medicinal chemistry. Not only have many of them attended and presented papers in national and international forums, conferences and seminars, they have also written and published books that have been well received.

The College of Pharmacy offers D.Pharm., B.Pharm., M.Pharm., M.B.A. (Pharma) and Ph.D. degrees under SRM University. The courses have been approved by the Government of Tamil Nadu, the Pharmacy Council of India, and the All India Council for Technical Education. The program is supplemented by a refreshing breath of co-curricular and extra-curricular activities to ensure you not only gain expertise in technical aspects, but also acquire personality excellence and leadership qualities that are vital to excel in a competitive world.

### Curriculum

The undergraduate program inculcates students with skills and techniques in the field of pharmacy, besides a strong foundation in mathematics, biochemistry, anatomy, physiology, business management, instrumentation and computer education. They will also gain practical experience from field visits to industries, hospitals and laboratories.

The postgraduate program offers a variety of specializations. Students gain experience through industrial training and research projects. Major research areas include development of new analytical techniques, novel drug delivery systems, screening for pharmacological activities, phytochemistry, quantitative structure activity relationship, chemical derivation, medicinal chemistry and standardization of impurities in drug materials.

### Laboratories and facilities

The college has 15 laboratories belonging to the pharmaceutical chemistry, pharmaceutical biotechnology, pharmaceutical analysis, pharmaceuticals, pharmacology and pharmacognosy departments. Some of the instruments you'll find in these laboratories are:

- CADMACH automatic tablet punching machine
- Fourier transform I-R spectrometer
- UV-visible double beam spectrophotometer

- High performance liquid chromatography
- Brookfield viscometer
- Dissolution testing apparatus USP module
- Karl fischer moisture analyzer
- Autoanalyser
- Physiograph

### Library

When students are in need of information, the college library is the place to head to. With over 4000 volumes catering to the needs of both students and staff in various subjects, the library is well equipped to handle their needs. Internet facilities give students access to millions of online journals and databases. The library computers also have special software packages useful for research in pharmacy, including graph pad, excel worksheet, chem. office, and chem. window.

### Industrial rapport

Students get the advantage of SRM University's close ties with industries, hospitals and laboratories through consultancies, visits and student projects. Friendly relations exist with Orchid Health Care, Tablets India, Novartis, Dr. Reddy's Laboratories, Cipla, Cadila and Eli Lilly. Many of them have come for campus interviews.

### Research

The institute has a separate research laboratory equipped with the latest instruments. The thrust areas of research in the institution includes, as mentioned before, development of new analytical techniques, novel drug delivery systems, new drug entity and HTP screening for pharmacological activity. The college has produced around 100 research projects and a number of papers have been presented in national and international conferences.

### Career

The college has produced quality pharmacy graduates competent to serve in any field. Students have successfully achieved university ranks. In fact, the first rank of GATE 2003 was secured by one of the graduates of this institution.



## School of Public Health

The only way to be ready to take on global public health issues is by opting for a degree that maintains a global perspective. The Master's in Public Health (MPH) is a professional degree with a curriculum that is in tune with similar degree programs worldwide.

Professor Satish Kumar, Dean of the SRM School of Public Health, has over 25 years of experience in public health research and health program management.

### The school

The School of Public Health is designed on a 'hub and spoke' concept that links it to many sister schools in the university including medical, nursing, pharmacy, food technology, management, environmental engineering, science and humanities. This mutually beneficial understanding gives students the advantage of a well-rounded learning experience.

### Curriculum

The MPH degree strikes a balance between academics and practice. This is a 2-year professional degree that incorporates 900 hours of contact classes and an equivalent 900 hours of field training.

In the first year, a student gets a thorough understanding of health systems, diseases control and epidemiology. In the second year, the student will be given the opportunity to specialize in the area of:

- Health Management
- IT in Healthcare
- Occupational and Industrial Health
- Health systems and Clinical Research

Students also undertake a 6-month internship. The faculty and mentors guide students in selecting thesis topics, designing studies, and collecting primary data. In the final semester students will return to the university to complete data analysis and produce a research paper.

### Research

The school plans to create research pools in the areas of evidence-based medicine, healthcare finance and management, emerging technologies in health and environmental health through global links.

Apart from collaborations with Queens University of Canada, the school has also entered into a partnership with the Foundation for Research in Health Systems (FRHS), a government recognized Scientific and Industrial Research Organization. This collaboration allows for extended research in improving health services and intervention.

### Career

You might find yourself working for international organizations like WHO, UNESCO or NGO's like Red Cross. A professional degree in public health also opens doors into pharmaceutical companies who undertake randomized clinical trials. Public health consultants specialised in IT in healthcare are also in great demand in various national and multinational companies.



## SRM Institutes for Medical Science (SIMS), Vadapalani, Chennai.



SIMS provides advanced tertiary healthcare services in Chennai with state-of-the-art care relating to most of the super-specialties in medicine. Very soon, it is expected that the hospital will also provide a state-of-the-art multi-organ transplant service. With a combination of experience, expertise, state-of-the-art technology and well-coordinated patient centric teamwork, every step is aimed at ensuring excellence in patient care.

The hospital strives to establish trust and excellence, following in the footsteps of the SRM Group. The vision of SIMS is to offer an advanced full range of specialty medical care services with cross-consultative service under one roof. Spread over 230,000 sq ft, the hospital has 345 beds, state-of-the-art imaging and lab services, best in class 15 modular operating rooms, 7 specialty centric ICUs, specialised Day Surgery Unit and a 30 bedded Accident and Emergency unit with specialized protocols for trauma and medical emergencies with state-of-the-art technology. The facilities are designed and equipped to meet the discerning requirements of both domestic and international patients.

Medical Institutes at SIMS include the following

- Institute of Cardiac Sciences
- Institute of Neurosciences
- Institute of Orthopaedics (SIMS-Asian Joint Reconstruction Institute)
- Institute of Craniofacial, Aesthetics & Plastic Surgery
- Institute of Gastroenterology, Hepatobiliary Sciences and Transplantation
- Institute of Obstetrics, Gynaecology & IVF
- Institute of Oncology
- Institute of Anaesthesiology & Pain Medicine
- Institute of Renal Sciences

Other major specialties include Dental Surgery, Dermatology, Diabetology, Endocrinology, ENT, General Surgery, Geriatrics, Infectious Diseases, Internal Medicine, Medical Oncology, Neonatology, Ophthalmology, Pediatrics, Psychiatry, Pulmonary Diseases, and Rheumatology.

# Department of Trauma Care and Emergency Medicine

The Emergency Medicine department is the public face of any tertiary hospital. SRM Institutes for Medical Science (SIMS) has a large and very well equipped, state-of-the-art, Emergency Medicine department. As SIMS is located in a central area of Chennai, we expect to receive a large number of medical and surgical emergencies, besides trauma victims. As India's road traffic becomes more congested there is increasing trauma from traffic accidents. In the Trauma Care department it is routine to take care of such patients with multiple trauma. The Acute Emergency Medicine section deals with patients with heart attacks, stroke, pancreatitis and abdominal emergencies, respiratory emergencies, neurological emergencies and so on.

The department is managed by highly trained specialists overseeing an enthusiastic junior staff and technicians and nurses. SIMS has high profile clinical departments in the medical and surgical disciplines who will take further care of the patients once acute care has been provided in Emergency Medicine. The Emergency Medicine department has international collaborations with a view to enhancing care and training in the department.

The Emergency Department offers fellowship in Emergency Medicine course for young doctors who will be trained to become well qualified Emergency and Trauma Care physicians.

We also conduct a Diploma in Emergency Medicine Technology for paramedical workers who will be provided high quality training in trauma and accident care, as well as emergency medicine training.



## Laboratory Services

The laboratory services division of the SRM Institutes for Medical Science (SIMS) provides support to all the clinical specialties of the hospital. The central laboratory is well planned and spacious distributed over an area of 18000 sq. feet. The diagnostic wing consists of four sub sections, namely Histopathology & Cytopathology, Haematology & Clinical Pathology, Biochemistry, Microbiology, and Blood Bank.

The **Department of Histopathology & Cytopathology** is equipped with gross station, automated tissue processor, automated stainer, cryostat, Leica microtomes, fluorescent microscope and bright field microscopes. The services provided include:

- \* Routine biopsy services performed on small, medium and large resected specimens.
- \* Histochemical stains like PAS, reticulin etc.
- \* Immunohistochemistry for confirmation and sub categorization of tumours and lymphomas
- \* Immunofluorescence for precise localization of antigen-antibody complexes in tissues
- \* Frozen sections (Intraoperative consultation).
- \* Slides / paraffin blocks for second opinion.
- \* Fine needle aspiration cytology (FNAC) on visible superficial swellings in the lymph nodes, breast, thyroid gland and other parts of body.
- \* Exfoliative cytology and cytology of body fluids.

The **Department of Hematology and Clinical Pathology** aims to provide accurate and reproducible results within the shortest possible time. The laboratory is equipped with completely automated cell counters which processes routine haematological investigations such as complete blood counts, haemoglobin, total and differential counts, platelet count and red cell indices. Automated coagulation profile machine which processes routine coagulation studies such as prothrombin time, activated partial thromboplastin time and fibrinogen. QBC method is used for detection of MP/MF. ESR and urine analysis are done by automated machine. Expert interpretations are carried out for peripheral blood and bone marrow aspirates. The department functions round-the-clock 7 days week and offers the following tests:

- \* Complete blood count & ESR
- \* Malaria Test
- \* Bone marrow examination
- \* Coagulation workups
- \* Factor assays
- \* Routine urine analysis
- \* Stool occult blood

The **Department of Biochemistry** is a clinician consultant oriented and patient focused facility, which works 24X7. Biochemical tests are of key clinical importance, being used for diagnosis, treatment and assessment of prognosis. The department is equipped with two fully automatic discrete selective analyzers which are capable of performing a wide range of biochemical tests. Other equipments include emergency electrolyte analyzers and a fully automated hormone analyzer. The technologists working in the department are post-graduates / undergraduates in Biochemistry with Diploma in Lab Technology, and have gained several years of experience in the field. The department practices extensive quality control to assess day-to-day precision, through Bio-Rad accuracy controls. It also participates in an External Quality Assurance Scheme to assess its interlab variation on a National level and its performance has consistently been good



over the years. The department gives priority to urgent samples, the results for which will be made available within one hour of receiving the samples at the laboratory. The department offers the following tests:

\* Routine biochemical and enzyme tests

\* Profile tests:

- \* Diabetic
- \* Renal
- \* Liver
- \* Lipid
- \* Cardiac
- \* Thyroid

The **Department of Microbiology & Serology** aims to play a key role in the diagnosis of infectious disease in a wide range of clinical specimens, to provide reliable and reproducible results within the turnaround time followed. Our main strengths are in the fields of bacteriology, serology and mycology. The bacteriology lab is equipped with automated BacT ALERT for blood cultures and sterile body fluids – a highly sensitive technique to detect scanty bacteria. The routine cultures and sensitivity are also strictly monitored and reported. We regularly implement updated Quality Control guidelines and participate in External Quality Assurance Scheme.

For tuberculosis testing, we use the breakthrough GeneXpert (Xper TB / Rif) test. It is the latest technique in real time PCR, a highly sensitive test which detects both the presence of Tuberculosis and Rifampicin resistance in pulmonary and extrapulmonary samples. Our lab is one of the chartered members of the IPAQT initiative, which strives to combat TB by providing high-quality endorsed TB tests at an affordable price. This test is available at our lab at a subsidized rate of Rs.1700, instead of regular rate of Rs.3850. There are several techniques used in serology to detect Hepatitis B and HIV infections. We use the chemiluminescence technique for these tests using the calibrated, automated Vitros-ECL analyzer. The mycology section is well-equipped to perform tests for a range of fungal infections. Apart from these procedures, we also perform routine microbiological tests, including aerobic bacterial culture and sensitivity & serology tests for dengue and leptospira, using rapid techniques.

The department works from 7am to 7pm. Routine culture reports will be available within 48-72 hours and fungal culture within 1-3 weeks of testing.

#### **Serological Testing:**

- \* Hepatitis markers (HBs Ag & anti HBc) through chemiluminescence, within 24 hours.
- \* ASO, CRP, RF and RPR through immunochromatography (turnaround time is 6 hours).
- \* Widal through tube agglutination (turnaround time is 24 hours).
- \* Dengue IgG, IgM antibodies & NS1 antigen.
- \* IgM to Hepatitis A
- \* IgG and IgM antibodies to Leptospira

All the above departments have experienced and enthusiastic faculty members, who are actively involved in hospital diagnostic work, undergraduate and post graduate teaching, curriculum development and research. Weekly discussions are held in the department and at clinical meetings. The staff members regularly attend conferences at local national and international level to upgrade their knowledge.

The teaching program consists of didactic lectures. Students are also encouraged to take part in seminars and are given assignments regularly. Modern teaching methods like problem based learning have been introduced, these students are encouraged to think for themselves. We also conduct research activities in collaboration with clinical departments.

#### **Courses**

1. Diploma in Medical Laboratory Technology (DMLT)
2. Post Graduate Diploma in Medical Microbiology Technology (PGDMMT)



## Medical Records Department

The Medical Records department at the SRM Institutes for Medical Science (SIMS) is headed by trained professionals with long years of experience in corporate hospitals. Electronic medical records are in use and will shortly be enhanced with additional capability. The institution maintains records both in hard copy and electronically. Coding and classification and medical documentation follow the currently prescribed national and international norms for best practice.

Health information technicians need to know how to create, store, code and classify medical records. Medical records courses are usually completed within a full certificate or diploma program. Health information technology, medical office administration and medical records coding programs offer medical records courses. These educational programs often culminate in a certificate or associate degree and cover not only medical records coding, but also topics like medical office procedures, accounting, customer service, productivity software. Some common medical records courses included in such programs include those in medical terminology, records coding and classification, insurance and billing procedures, medical records fundamentals and information technology. Students learn to use medical information management software and to code and classify records for billing and insurance reimbursement.

The Medical Records Department at SIMS offers the course for Diploma in Medical Record Technology. Students admitted to this course will learn the following modules:

1. **Medical Records Fundamentals:** In this class, students will learn how to properly create and store medical files. Paper and electronic records will be discussed. Students will also explore principles of information management like records retention and disposition. Students will learn professional standards in filing, doctor-patient confidentiality and ethical behavior related to the collection, retention and sharing of patient data.
2. **Medical Terminology:** It's essential that medical records professionals understand the anatomical, physiological and pathological terms used in patient files and related records. This coursework will help students to master proper spelling and pronunciation.
3. **Information Technology:** This course will introduce students to common technologies used in the workplace. In addition to lectures, hands-on learning opportunities will allow students to practice creating, updating, storing and accessing medical records like patient charts, appointment schedules and test results.
4. **Coding and Classification of Records:** The practical application of coding and classification for billing and insurance reimbursement is the focus of this course. Lessons cover codes and classifications for medical procedures and medical diagnoses and guidelines for use in medical records. Students will learn various guidelines and how they relate to the preparation of medical records.
5. **Insurance and Billing Procedures:** Students will be introduced to common health insurance company requirements for handling claims and typical office billing procedures. They will practice processing insurance claims and workers compensation claims for outpatient and inpatient treatment. We will also provide lessons on legal and ethical aspects of working with medical records within the context of insurance and billing processes.



## Clinical Research

The SRM Institutes for Medical Science (SIMS) fosters clinical research. This research may be aimed at evaluating new therapies or may aim to improve clinical diagnosis and management outcomes.

Drugs, devices and diagnostic products have to undergo research on safety and efficacy from inception until they are out into the market and beyond. Clinicians in SIMS are at the forefront of medical and surgical practice in their respective realm of medicine. They are therefore involved in evaluating safety and efficacy of new therapies (Phase 2 and Phase 3 clinical trials) and in documenting the safety of products that are already marketed (Phase 4 clinical trials). Clinical trials follow pre-defined protocols that take into account regulatory considerations. The regulatory requirements and protocols need to be well understood by anyone embarking on a career in clinical research.

SIMS has a dedicated clinical research cell that will coordinate this training and provide training in national and international guidelines governing clinical trials, handling of specimens, and other aspects of clinical research. The course will cover sections on study design and statistics. Clinical investigators in SIMS will be part of the faculty for our course in clinical research. Their experience will provide a framework for education and training of information for students aspiring to pursue their course in clinical research and to foster professional excellence in design and conduct of clinical research.

The course has been designed in such a way that the enrolled students will have theory classes and will also be involved in practical sessions. Students who have joined this course will be sent to clinical departments, laboratory, and to other institutions for onsite training and understanding the intricacies of coordinating clinical trials.

The students will be assessed by internal tests and final exams. In addition students will be assigned a project and assessed on that.

Thus every student joining this course will be well placed to undertake a career in clinical trials and research and will have a competitive edge in interviews while applying for a job.

### Our Objectives

Apart from bringing in the new face of Clinical Research, SIMS aims to:

- To create students who can excel in the field of clinical research.
- To be accepted as a renowned centre of excellence
- To fill in the vacuum of skilled man power.

## Medicine & Health Sciences

### (List of courses and eligibility)

S. No.	Courses	Duration	Eligibility
<b>BACHELOR DEGREES</b>			
1.	M.B.B.S	4 1/2 years + 1 year internship	H.S.C / (+2) or equivalent qualification with English, Physics, Chemistry and Biology/ Botany & Zoology with 70% in individual subjects.
2.	B.D.S.*	4 years + 1 year internship	H.S.C / (+2) or equivalent qualification with English, Physics, Chemistry and Biology/ Botany & Zoology
3.	B.Sc. Nursing*	4 years	H.S.C / (+2) or equivalent qualification with Physics, Chemistry and Biology/Botany & Zoology, English
4.	P.B.B.Sc.Nursing (Post Basic Bachelor of Science)	2 years	a). The candidate should have a Diploma in Nursing and be a Registered Nurse and Midwife in the Tamil Nadu Nursing and Midwives Council or any other State Nursing Council accepted by the authority of this University.
5.	Bachelor of Physiotherapy*	4 1/2 years incl. 6 months internship	H.S.C / (+2) or equivalent qualification with Physics, Chemistry and Biology / Botany and Zoology
6.	Bachelor of Occupational Therapy*	4 1/2 years incl. 6 months internship	H.S.C / (+2) or equivalent qualification with Physics, Chemistry and Biology / Botany and Zoology
7.	Bachelor of Pharmacy*	4 years	H.S.C / (+2) or equivalent qualification with Physics, Chemistry, Biology or Maths.
8.	Bachelor in Audiology and Speech Language Pathology*	3 years + 1 year internship	H.S.C. / (+2) or equivalent qualification with Physics, Chemistry and Biology
*Serial No. 2,3 & 5 to 8: Eligibility is minimum aggregate marks of 60%			
9.	B. Optom	3 years + 1 year internship	H.S.C / (+2) or equivalent qualification with Mathematics, Physics, Chemistry and Biology. 60% aggregate in any two subjects.
10.	Bachelor of Medical Record Sciences	2 years	Any degree of a recognized university
11.	B.Sc. Medical Laboratory Technology	3 years + 1 year internship	H.S.C / (+2) or equivalent qualification with 50% marks and above. For DMLT Laboratory Technology holders the duration will be 2 years (B.Sc., M.L.T)
12.	B.Sc. Renal Dialysis Technology	3 years + 6 months internship	H.S.C / (+2) or equivalent qualification with Physics, Chemistry and Biology / Botany and Zoology
13.	B.Sc. Medical Imaging Technology	3 years + 1 year internship	H.S.C / (+2) or equivalent qualification with Physics, Chemistry, Mathematics / Biology / Botany and Zoology

S. No.	Courses	Duration	Eligibility
<b>MASTER DEGREES</b>			
14	MD • General Medicine • Paediatrics • Psychiatry • Dermatology • Radiology • Pulmonary Medicine • Anaesthesiology • Anatomy • Physiology • Biochemistry • Microbiology • Pathology • Pharmacology • Community Medicine	3 years	Pass in MBBS or its equivalent degree recognized by Medical Council of India (Candidates completing the CRR I on or before 31.03.2015 are also eligible)
15	MS • General Surgery • Obstetrics and Gynaecology • Orthopaedics • ENT • Ophthalmology	3 years	Pass in MBBS or its equivalent degree recognized by Medical Council of India (Candidates completing the CRR I on or before 31.03.2015 are also eligible)
<b>SUPER SPECIALTY COURSES</b>			
16	DM • Cardiology • Neurology • Nephrology	3 years	MD - General Medicine / MD. Paediatrics
17	M.Ch - Cardiothoracic Surgery	3 years	MS - General Surgery
	M.Ch - Neuro - surgery	3 years	MS - General Surgery / MS - Orthopaedics
	M.Ch - Urology	3 years	MS - General Surgery / MD (or) MS Obstetrics and Gynaecology
18	M.D.S. (Master of Dental Surgery)  • Conservative Dentistry and Endodontics • Oral Pathology, Microbiology & Forensic Odontology • Oral and Maxillofacial Surgery • Orthodontics & Dento Facial Orthopedics • Periodontics • Prosthodontics and Crown & Bridge • Public Health Dentistry • Oral Medicine & Radiology • Paedodontics & Preventive Dentistry	3 years	Pass in B.D.S. or Its equivalent degree recognized by Dental Council of India (Completion of internship on or before 31.03.2015)
19	M.Sc. Medical Anatomy	3 years	B.Sc. Zoology (not less than II class)
20	M.Sc. Medical Physiology	3 years	B.Sc. Zoology (not less than II class)
21	M.Sc. Medical Biochemistry	3 years	B.Sc. - Biochemistry (main only) / Medical Laboratory Technology / Chemistry (main only) (not less than II class)

### Medicine & Health Sciences (List of courses and eligibility)

S. No.	Courses	Duration	Eligibility
22	M.Sc. Medical Microbiology	3 years	B.Sc. - Zoology / Biochemistry / Chemistry / Biotechnology / Medical Laboratory Technology / Life Sciences (not less than II class)
23	M.Sc Medical Sociology	2 years	Bachelor degree in Medicine, Dentistry, Occupational Therapy, Social Sciences, including sociology, Psychology, Anthropology, Social work, Medical Sociology, Biological Sciences, Health Administration and Management Physiotherapy, Nursing, Pharmacy and Indian System of Medicine (AYUSH)
24	MASLP	2 Years	BASLP/ B.Sc (Sp & Hg)/ B.Sc (HLS) degree or equivalent (including internship) from any recognized University Approved by RCI
25	M.Sc. Nursing • Community Health Nursing • Obstetrics & Gynaecology Nursing • Medical Surgical Nursing • Psychiatric Nursing • Paediatric Nursing	2 years	B.Sc. Nursing with minimum 55% aggregate marks and 1 year experience. Post Basic B.Sc. Nursing candidates need not have experience. Should have registered in state council of nursing.
26	MPT (Master of Physiotherapy) • Biomechanics • Cardio Pulmonary Sciences • Community Rehabilitation • Hand Rehabilitation • Neurology • Obstetrics and Gynaecology • Orthopaedics • Paediatrics • Sports Physiotherapy	2 years	Bachelor of Physiotherapy
27	MOT (Master of Occupational Therapy) • Cardiorespiratory • Hand Rehabilitation • Neurology • Orthopaedics • Paediatrics • Mental Health	2 years	Bachelor of Occupational Therapy
28	Masters in Pharmacy • Pharmaceutics • Pharmaceutical Analysis • Pharmaceutical Biotechnology • Pharmaceutical Chemistry • Pharmacognosy • Pharmacology • Pharmacy Practice • Quality Assurance and Regulatory Affairs.	2 years	Bachelor of Pharmacy

S. No.	Courses	Duration	Eligibility
29	Pharm.D	5 Years + 1 Year Internship	A pass in any of the following examinations: (1) HSC / 10+2 or equivalent qualification with Physics and Chemistry as compulsory subjects along with one of the following subjects: Mathematics or Biology (2) A pass in D.Pharm course from an institution approved by the Pharmacy Council of India as equivalent to any of the above examinations, provided that a student should be 17 years of age on or before 31st December of the year of admission to the course.
30	Pharm D. Post Baccalaureate	3 years	Bachelor of Pharmacy
31	M.B.A. Pharma	2 years	Pass in B. Pharm / B.V.Sc. / M.V.Sc. / MBBS / MD with 60% in aggregate or 6.75 CGPA on a 10 point scale
32	Masters in Public Health • Health Management • IT in Health Care • Occupational and Industrial Health • Health systems and Clinical Research	2 years	Bachelor's Degree in Medicine, Engineering, Ayush, Physiotherapy, Veterinary Sciences with 50% aggregate marks. Other graduates 55% marks
33	M.Sc Biostatistics & Epidemiology	2 years	Graduates with a pass in Medicine, Ayush, Engineering, Pharmacy, Physiotherapy, Occupational Therapy, Dentistry, Veterinary Sciences. Arts & Science Graduates with 55% marks are eligible to apply.
34	M.S. Clinical Trials	2 years	Graduates with a pass in Medicine, Dentistry, Pharmacy, Engineering & Science
35	MBA - MPH Dual Degree	3 years	Graduates with a pass in Medicine, Engineering, Pharmacy, Physiotherapy, Occupational Therapy, Dentistry, Veterinary Sciences. Arts & Science Graduates with 55% marks are eligible to apply.
36	M.Phil Clinical Psychology	2 years	M.A / M.Sc in Psychology (or in Counseling Psychology, Clinical Psychology, Applied Psychology) from the UGC recognized university.
<b>DIPLOMA COURSES</b>			
37	Diploma in Nursing & Midwifery	3 ½ years	Passed 10+2 or equivalent preferably science (PCB & English with aggregate of 45% marks.
38	Diploma in Optometry	2 years	H.S.C. / (+2) or equivalent qualification with 50% aggregate marks in any two subjects – Physics, Chemistry, Biology and Mathematics
39	Diploma in Medical Laboratory Technology	2 years	H.S.C. / (+2) or equivalent qualification with 50% aggregate marks in Physics, Chemistry and Biology
40	Diploma in Medical Record Science	1 year	Pass in H.S.C. / (+2) or equivalent qualification
41	Diploma in Emergency Medical Technology & Trauma Care (DEMTTC)	2 years	Candidates should have passed HSC/+2 science or equivalent from a recognized Board or University with pass 40% marks in each subject separately including English

<b>PG DIPLOMA COURSES</b>			
S. No.	Courses	Duration	Eligibility
42	Post Graduate Diploma in Hospital Administration (PGDHA)	1 year	Bachelor's Degree in any Faculty of any Statutory University / General Nursing & Midwifery (GNM) – 3 ½ years course after HSC conducted by Nursing Council of any state with one year experience after passing GNM course
43	Post Graduate Diploma in Clinical Research (PGDCR)	1 year	Graduate obtained a minimum of 50% in the respective qualifying examinations are eligible for admission  • B.Pharm / M.Pharm  • Bachelor degree / Post Graduate degrees in Biotechnology / Biotechnology / Biochemistry / Microbiology  • M.B.B.S / B.D.S / BVSc  • Graduate / Post Graduate degrees in alternate systems of medicine B.Sc Nursing / M.Sc Nursing
44	Post Graduate Diploma in Medical Microbiology Technology (PGDMMT)	1 year 6 months internship	Candidates with Bachelor degree in Microbiology (B.Sc Microbiology) and Lab Technology (B.Sc MLT)
<b>CERTIFICATE COURSES</b>			
45	Ophthalmic Technology	1 year	H.S.C. / (+2) or equivalent qualification with 50% aggregate marks in any two subjects in - Physics, Chemistry, Biology and Mathematics
46	Blood Bank Technology	6 months	B.Sc. Nursing, Microbiology, Biochemistry, Biotechnology, Nutrition, MLT
47	Health Inspector	1 year	H.S.C. / (+2) or equivalent qualification with science subjects
48	Certificate Course in Medical Office Management (CcMOM)	6 months	HSC / +2 or equivalent qualification with 50% aggregate marks in any two subjects – Physics, Chemistry, Biology or equivalent science group subjects

**Ph.D in all disciplines.**



