



# SHAPING FUTURE INNOVATORS



## VISION

Sri Siddhartha Academy of Higher Education (SSAHE) is driven to making students technologically sophisticated, ethically strong and empowered to improve the quality of life of the human race, by imparting futuristic technical/ medical knowledge.

## MISSION

To impart world-class education and inspire young minds to evolve into responsible human beings in an inclusive environment, adapting to technological changes and paving the way for human progress.

UNIVERSITY CAMPUS





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# SRI SIDDHARTHA EDUCATION SOCIETY



The year 1947 saw India win its freedom.

The fledgling nation had to rebuild itself to regain its rightful place in the world and education was the primary building block that could help empower this dream.

Late Sri H M Gangadharaiiah, a visionary educator in the arts and a humanitarian, fueled by the teachings of the most inspirational Indian leaders of the time - Sri Acharya Vinoba Bhave and Mahatma Gandhi, the principles of the saint Sri Basavanna and the great social reformer Dr. Baba Saheb Ambedkar, decided to address this cause. He envisioned an educational establishment that will help disperse the seeds of knowledge and build an awakened, more intelligent society.

Blessed by the great Acharya himself: "May you be a staunch social worker and may this Gollahalli be a Shanthinikethan. Let your honesty be a beacon for your efforts", Sri Gangadharaiiah went on to establish the Sri Siddhartha Education

Society (SSES) in 1959, with the primary vision to reach out and extend the wisdom of education to the needy. Quite naturally, he earned the moniker 'Shikshana Bheeshma', and named his brainchild after one of the greatest life philosophers of all time, the great 'Siddhartha' Gautama Buddha.

Over the years that followed, SSES was taken over by Sri Gangadharaiiah's two illustrious sons Dr. G Shivaprasad, an eminent ophthalmologist and Dr. G Parameshwara, a reputed scientist in the field of agriculture who followed their father's footsteps and continued his legacy to develop over 84 eminent Academic, Medical, Engineering, Dental and Research establishments - with a total student strength of over 16,000 and staff strength of nearly 1,800 - spread out to serve the society and extend quality education and medical care globally. Among the avant-garde institutions of repute under the aegis of SSES are Colleges of Medicine, Dental, Engineering & Technology and Nursing.



# WELCOME TO SRI SIDDHARTHA ACADEMY OF HIGHER EDUCATION (SSAHE)

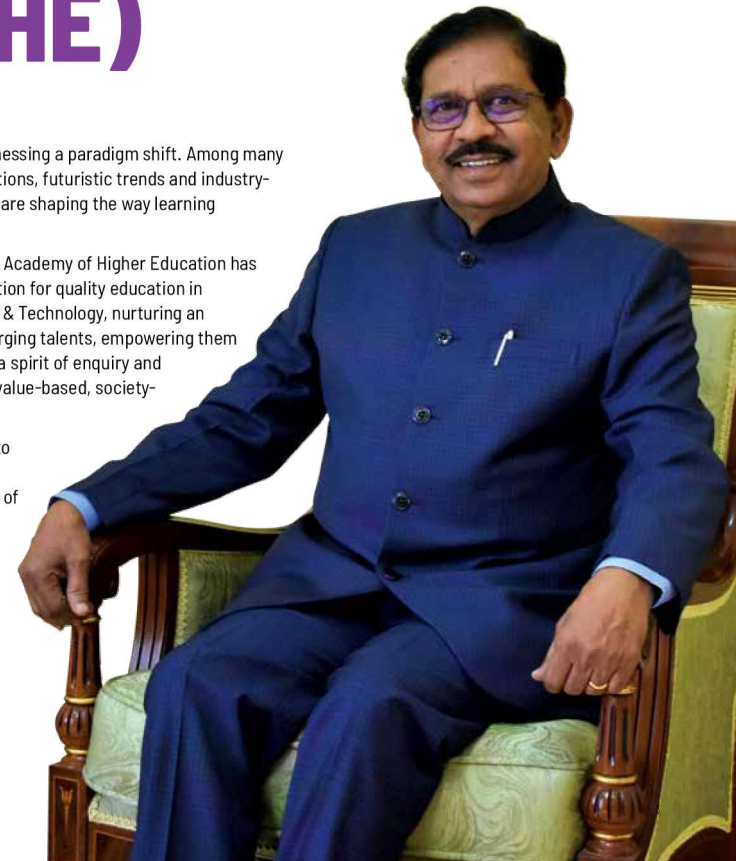
## From the Chancellor's Desk

The world of education is witnessing a paradigm shift. Among many things, adaptive learning solutions, futuristic trends and industry-ready training methodologies are shaping the way learning is imparted.

Over the years, Sri Siddhartha Academy of Higher Education has emerged as a trusted destination for quality education in Medicine, Dental, Engineering & Technology, nurturing an all-inclusive platform for emerging talents, empowering them with solid foundational skills, a spirit of enquiry and enterprise, and inculcating a value-based, society-centric outlook.

The University looks forward to welcoming young learners to undertake an exciting journey of discovery and empowerment.

**Dr. G Parameshwar**  
Chancellor







**Late Dr. G Shivaprasad**  
First Chancellor

The University was previously led by Late Dr. G Shivaprasad, an eminent ophthalmologist, who essayed the role of secretary of the Sri Siddhartha Educational Society, who shouldered the responsibility of steering all the institutions of the society along the lines envisaged by his father. His thoughts and philosophy on The Buddha made him a strong follower of Buddhism, an excellent orator and a great teacher. Dr. G Shivaprasad is also the first Chancellor of SSAHE whose unparalleled leadership and domain expertise had helped align the society's multi-disciplinary goals to the fundamental vision of its founding father. Steeped up in spirituality and noble traditions of Buddhist philosophy, Dr. G Shivaprasad had a vision and mission to give not only sight for the blind, but insights and the foresight of knowledge and wisdom to the students and society at large. Dr. G Shivaprasad had won many awards and accolades such as the Rajiv Gandhi National Award in the year 1995, he was also a member of the All India Ophthalmic Society (Karnataka). He also served as a senate member of the Bangalore University.

## BOARD OF TRUSTEES



**Mrs. Kannika Parameshwari**



**Dr. G.S. Anand**



**Dr. Balakrishna Shetty**  
MD, DNB, MD (USA)  
Vice Chancellor

It gives us immense pleasure to welcome students from various parts of the world to join our extensive range of undergraduate and postgraduate programs. At Sri Siddhartha Academy of Higher Education (Deemed to be University), we offer an atmosphere of homely love and care, while adhering to the requisite standards of discipline.

The University boasts a long history of achievements, and adding to its most recent credentials are the National Assessment and Accreditation Council (NAAC), the MCI, the NBA, the UGC and the AICTE. I am proud to inform you that all our students are achievers in the society, nationally and internationally. SSAHE is the only university from India to be a member of the Consortium of Universities for Global Health (USA).

Our faculty are highly competent and committed. We conduct regular national and international conferences, seminars and workshops, giving all students equal opportunity to participate. Our students are encouraged to view learning as a holistic process of growth and development rather than learning by rote just to pass exams. We are open and ever willing to listen to proposals, ideas and suggestions. Our motto is to enhance the intellectual energy of our students. We also have various University Level Social Projects for students to participate in.

We look forward to having you with us, supporting you in developing your talents and proudly applauding your achievements. God bless and wish you the very best.

## BOARD MEMBERS OF THE UNIVERSITY

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Former Secretary, UGC,  
New Delhi

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Secretary & Registrar,  
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Higher Education, Tumkur



# SRI SIDDHARTHA ACADEMY OF HIGHER EDUCATION, TUMKUR

Initiated as a school by SSES, the system steadily evolved and grew, blossoming into a full-spectrum, multifaceted, public education centre, under the name Sri Siddhartha Academy of Higher Education (SSAHE), Tumkur, in 2008.

Across the board, the society, management and staff work diligently behind the scenes, to channelize the vision and to carry it forward, led by the Honorable Chancellor, Dr. G. Parameshwara, a reputed agricultural scientist with a Doctorate

in Agriculture from Australia; a former Minister for Higher Education and the former Deputy Chief Minister, Government of Karnataka.

Today, SSAHE and its constituent institutions hold pride of place among Karnataka's premier educational and research establishments and is recognized across India's academic circles, while remaining committed to its mission of reaching the unreached and sowing the seeds of education.

The University has been accorded accreditation with 'A' Grade status by the National Assessment and Accreditation Council (NAAC) as of 16<sup>th</sup> November 2015.

# WHAT CAN I EXPLORE?

Sri Siddhartha Academy of Higher Education is dedicated to providing industry-ready, relevant and contemporary learning programs that span across a vast spectrum of disciplines and specializations in Medicine, Dentistry and Engineering among others.

## MEDICINE (UG & PG PROGRAMS)

Anatomy  
Physiology  
Biochemistry  
Pathology  
Microbiology  
Pharmacology  
Forensic Medicine and Toxicology  
Community Medicine  
Oto - Rhinologyngology (ENT)  
Ophthalmology  
General Medicine  
Dermatology  
Paediatrics  
Psychiatry  
General Surgery  
Obstetrics and Gynaecology  
Orthopaedics  
Radiology  
Anaesthesiology

## DENTISTRY

Oral Medicine and Radiology  
Periodontics  
Oral and Maxillofacial Surgery  
Prosthodontics and Crown Bridge  
Pedodontics and Preventive Dentistry  
Oral Anatomy, Histology and Oral Pathology  
Orthodontics and Dentofacial Orthopaedics  
Public Health Dentistry  
Conservative Dentistry and Endodontics

## ENGINEERING & TECHNOLOGY

Civil Engineering  
Computer Science and Engineering  
Electrical and Electronics Engineering  
Electronics and Communication Engineering  
Industrial Engineering and Management  
Information Science and Engineering  
Medical Electronics and Engineering  
Mechanical Engineering  
Electronics and Tele-Communication Engineering

## POST GRADUATE PROGRAMS (PG)

Masters of Computer Applications  
MTech in Digital Electronics  
MTech in Computer Aided Design of Structures  
MTech in Thermal Engineering  
MTech in Product Design and Manufacturing  
MTech in VLSI and Embedded Systems  
MTech in Computer Science and Engineering  
MTech in Computer Aided Industrial Drives  
Masters of Business Administration  
MS in Mass Communications

## PHD PROGRAMS

Anatomy  
Microbiology  
Basic Sciences  
Civil Engineering  
Computer Science and Engineering  
Electrical and Electronics Engineering  
Electronics and Communication Engineering  
Mechanical Engineering





# WHY CHOOSE SRI SIDDHARTHA ACADEMY OF HIGHER EDUCATION?

A DEEMED-  
TO-BE  
UNIVERSITY



STATE-OF-THE-ART,  
SPRAWLING,  
LUSH GREEN  
CAMPUSES



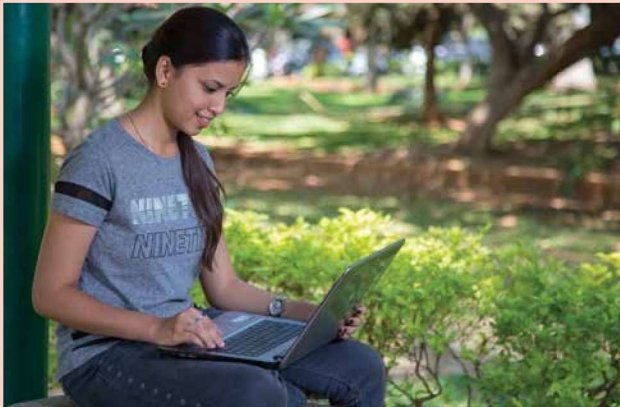
FUTURE-READY,  
INDUSTRY-FRIENDLY,  
STUDENT-CENTRIC  
EDUCATION



WORLD-  
CLASS  
FACULTY  
AND  
FACILITIES



30+  
SPECIALIZATIONS



5000+  
STUDENTS



CAMPUS  
RECRUITERS  
ACROSS  
DIFFERENT  
DISCIPLINES



# SRI SIDDHARTHA MEDICAL COLLEGE, TUMKUR

World over, innovations in healthcare have proven time and again, that when great minds meet and the right resources come together, radical breakthroughs are inevitable. Sri Siddhartha Medical College (SSMC) & Hospital, Tumkur was established in 1988 under the aegis of the Sri Siddhartha Educational Society, with the aim of developing and nurturing quality medical professionals committed to excellence in healthcare and social welfare. Nestled in a 250-acre green campus, spread over 75,000 sq. mts, the college has today evolved into a renowned hub of higher education and healthcare in India.

This prestigious campus is just an hour's drive (76 kms) from

Bengaluru city, situated off the Bengaluru-Honnavar National Highway.

The Medical College team comprises of a dedicated team of faculty members who are equipped to coach their wards in both the clinical and academic aspects, from best-in-class ICT classrooms. Each department has a well stocked reference library, internet facilities for staff and students and state-of-the-art research laboratories at par with the country's leading medical institutes.

The Institution regularly invites speakers of repute to deliver lectures on recent medical trends, and conducts state-level conferences, CMEs, seminars and workshops. The departments also conduct Community Oriented Research, timely Medical Exhibitions and an array of Health

Awareness Programs, aimed at disseminating knowledge to body donors and the general public.

Our dedicated team of faculty members undergo continuing medical education and attend state, national and international level conferences where they frequently interact with eminent scientists from across the country and around the world. The team explores innovative, integrated teaching methodologies and regularly contribute to academic publications.

## THE POWER OF HEALING

SSMC is committed to excellence in healthcare education, research, outreach and inclusivity through discovery, purpose and application. Driven by the objective of moulding top notch medical graduates to be research-oriented, service minded and competent in their fields of study, the institute provides excellent facilities for the pursuit and dissemination of knowledge, apart from an extensive array of training programs and field outreach activities that are relevant to the needs of the community and humanity at large.

The Institute is led by a team of highly qualified and experienced faculty members who are specialized in a diversified array of medical disciplines. The overall ethos of the Institute, reflects the vision of the parent University by ensuring transformation through the healing power of education and social empowerment.



## ENVISIONING CHANGE, EMPOWERING TRANSFORMATION

THE ENTIRE TEAM OF FACULTY AND BOARD MEMBERS ALONG WITH THE STUDENT COMMUNITY AT SRI SIDDHARTHA MEDICAL COLLEGE (SSMC) AND HOSPITAL ARE INSPIRED BY THE VISION TO EMPOWER TRANSFORMATION THROUGH THE POWER OF HEALING AT THE SOCIETAL, REGIONAL, NATIONAL AND INTERNATIONAL LEVELS.

In the light of this vision, the Institution aims to:

- Train high quality medical graduates, to be competent in their respective fields and be motivated to serve humanity at large
- Provide multi-disciplinary facilities for the pursuit of knowledge, relevant to the needs of the contemporary society
- Implement social services beneficial and relevant to the needs of the global community
- Facilitate research and advancements and their efficient dissemination as knowledge in the domain of medical sciences
- Produce and publish research papers across all fields of medical sciences, preferably in leading national & international journals
- Undertake extramural studies, extension programs and field outreach activities, contributing to societal development



## DEPARTMENT OF ANATOMY

**PROGRAMS OFFERED**  
**UNDERGRADUATE COURSE:**  
**MBBS**  
**POSTGRADUATE COURSE: PG**  
**MD (ANATOMY)**  
**DOCTORAL PROGRAM:**  
**PhD (ANATOMY)**

The Department of Anatomy at SSMC is led by a dedicated team of well-qualified faculty members and is equipped with a full-fledged Genetic, Molecular Biology and Anthropometry Laboratory, ICT enabled classrooms, a well-stocked reference library, internet facilities for staff and students, and state-of-the-art student research laboratories in par with the country's leading medical institutes, apart from a well-maintained museum with both dry and wet specimens and models.

SSMC's exclusive Genetic, Molecular Biology and Anthropometry labs have been recognized as research thrust areas by major funding agencies. The department library offers access to an excessive array of reference books deigned to nurture a deep-rooted knowledge of Anatomy.

## DEPARTMENT OF PHYSIOLOGY

**PROGRAMS OFFERED**  
**UNDERGRADUATE COURSE:**  
**MBBS**  
**POSTGRADUATE COURSE:**  
**MD (PHYSIOLOGY)**

The SSMC Department of Physiology is equipped with ample infrastructure facilities including ICT enabled classrooms, state-of-the-art labs and equipment. The department engages in inter-institutional collaborative projects and national level ICMR collaborated student projects and have received associated grants. The department's dedicated 'Event Related Potential Laboratory' and 'Autonomic Functions Laboratory' have been recognized as research thrust areas by major funding agencies.

Students get to work on exclusive research projects and attend to a diverse array of patient profiles as part of their

hands-on clinical teaching experience. The department library offers exclusive reference books pertaining to physiology and related topics.

## DEPARTMENT OF BIOCHEMISTRY

**PROGRAM OFFERED**  
**UNDERGRADUATE COURSE:**  
**MBBS**

The Biochemistry of today is the Medicine of tomorrow. The Department of Biochemistry is committed to adopt innovative methods of teaching to make learning interesting to students and strives to give quality reports enabled by implementing good laboratory practices for better patient care. The Biochemistry laboratory, a unit of Central Laboratory, situated in Hospital complex, is fully equipped with facilities to cater to the needs of the patients in the hospital. The faculty undergo workshops on NABL (National Accreditation Board for Testing and Calibration Laboratories), Internal Auditor's Training and Quality Assurance Programs to upgrade their knowledge on recent trends in good laboratory practices that enable them to give quality reports that benefit the patients. Students have submitted ICMR-STs projects under the guidance of the Biochemistry faculty. They have been actively participating in state level Biochemistry Quizzes conducted by the Association of Medical Biochemists annually. Students also actively participate in extra curricular competitions and win accolades for the Institution.

## DEPARTMENT OF PATHOLOGY

**PROGRAMS OFFERED**  
**UNDERGRADUATE COURSES:**  
**MBBS**  
**POSTGRADUATE COURSES:**  
**MD (PATHOLOGY)**

Pathology is the scientific study of diseases and one of the vast subjects in medical science. It is the bridge between pre-clinical and clinical specialties.

The department has a state-of-the-art museum with more than 600 pathology specimens, models, charts and system wise catalogues. It has a separate

department library with many reference books and monographs and has a dedicated section in the institute's central library.

The Department of Pathology also has a well-equipped diagnostic laboratory and offers services to patients in Histopathology, IHC, Cytopathology, Hematology and Clinical Pathology. A well-equipped Blood Bank recognized by the Government, with blood components facility functions under this department.

Postgraduate students get to work in various sections of the department under the supervision of the faculty for a hands-on experience. Postgraduate slide seminars and guest lectures are regularly arranged with eminent external faculty. Students are provided with opportunities to get short term training from institutions of excellence like NIMHANS and the Kidwai Institute of Oncology. They are encouraged to present posters and oral papers in various state and national conferences, to participate in state level quiz programs and slide seminars organized by the state and national pathology body. Former students of this department have secured excellent jobs in premier institutions.

## DEPARTMENT OF PHARMACOLOGY

**PROGRAM OFFERED:**  
**UNDERGRADUATE COURSE:**  
**MBBS**

The Department of Pharmacology is equipped with adequate infrastructure facilities including ICT enabled classrooms state-of-the-art labs and equipment. The teaching is student-oriented rather than teacher-oriented. Students are encouraged to conduct small projects and some of them have been already published in journals and presented in conferences. Adequate training is also provided for conducting research.

The department's dedicated thrust areas for research are 'Treatment compliance in chronic diseases', 'Medication safety' and 'Pharmacovigilance' and the department also receives associated grants. The department also has an annual publication entitled "The Newsletter of Pharmacovigilance"

The department library houses abundant reference books covering all the relevant topics in this subject.





Our students are also encouraged to participate in extra-curricular activities and are thus, given the opportunity to nurture their inner talents.

## DEPARTMENT OF MICROBIOLOGY

**PROGRAMS OFFERED**  
**UNDERGRADUATE COURSE:**  
**MBBS**  
**POSTGRADUATE COURSE:**  
**MD (MICROBIOLOGY)**

The department collaborates actively with all other departments for research and diagnostics and conducts all the necessary investigative procedures.

The department's dedicated 'TB' and 'DMC' centres have been recognised at the National level and 'NACO' and 'TB Microscopy' centres have received state recognition.

The department library is well-stocked with all the required books for reference in this specialized field.

## DEPARTMENT OF FORENSIC MEDICINE

**PROGRAM OFFERED**  
**UNDERGRADUATE COURSE:**  
**MBBS**

The faculty comprises well-qualified experienced staff members capable of equipping future Forensic professionals to face any challenge in the administration of justice and to help the PHC and other doctors in the discharge of Medico-Legal duties.

The department library is equipped with all the latest textbooks, handpicked to encourage a sense of systematic inquiry into the subject. The students also get to practice what they learn as they are given the opportunity to work alongside medical professionals on a diverse array of patient profiles, giving them a holistic approach to learning.

## DEPARTMENT OF OPHTHALMOLOGY

**PROGRAMS OFFERED**  
**UNDERGRADUATE COURSE:**  
**MBBS**  
**POSTGRADUATE COURSE:**  
**MS (OPHTHALMOLOGY)**

The department has specialised care centres in the areas of Glaucoma, Retina, Cornea, Squint and Neuro-Ophthalmology and Oculoplasty. The department is equipped with specialty and precision equipments such as Fundus Camera, Retinal Lasers, Anterior Segment Lasers, Slit Lamps, Auto Refractometers, Indirect and Direct Ophthalmoscope and all surgical facilities, namely trabeculectomies, squint and oculoplasty. Newer modalities of cataract surgeries such as SICS and Phacoemulsification are also available.

The department library offers access to the latest edition reference books, with a dedicated section in the Central Library and subscriptions to multiple prominent national and international journals.

The department actively engages community services such as eye collection drives, with short term storage and transportation facilities to affiliated eye banks. Community eye care services such as eye screening, surgical camps and regular eye camps across four rural centres every month are conducted by the department. Apart from this, twice weekly camps at Nagavalli and Maralur health care centres, and four camps per month by The Department of Comprehensive Eye Care Services under NOCB are also conducted at dedicated PHCs. Diabetic Retinopathy Screening Programs are also conducted in Tumkur District in collaboration with DBCS. Postgraduates and interns receive additional and hands-on experience at all the screening and surgical camps. Postgraduate students undergo peripheral posting for training in Regional Institutes and Super Specialty Eye Hospitals.

## DEPARTMENT OF COMMUNITY MEDICINE

**PROGRAMS OFFERED**  
**UNDERGRADUATE COURSE:**  
**MBBS**  
**POSTGRADUATE COURSE:**  
**MD (COMMUNITY MEDICINE)**

The department has got a well-established museum with lot of models, charts and specimens. The department also runs a public health laboratory along with the Department of Microbiology and carries out regular monitoring of water quality. The department library is well-stocked with reference books and materials for intellectual pursuits in the field of Community Medicine.

The department organises fortnightly general health check-up in different parts of Tumkur district with special attention to remote and rural areas. All specialized facilities and diabetes and hypertension screening also carried out. Follow-up patient investigations and treatments are conducted at SSMC, Tumkur for nominal charges.

The department also has a statistical section offering guidance to all students for research projects.

The department trains interns in both rural (Nagavalli) and urban health centres (Maralur Dinne). The students learn to undertake school health surveys, medical health check-ups and the immunization of Anganwadi children. They also conduct village health surveys, door-to-door visits and health education.

The department has an epidemiological section, headed by an epidemiologist, who is a member of the District Infectious Diseases Surveillance Committee. The faculty participate in monitoring Pulse Polio Immunization campaign, Measles-Rubella campaigns, Mission Indradhanush and other activities in the district. Our faculty also participate in assessing the functioning of different hospitals of the state under the Kayakalpa program. The faculty and interns of the department also carry out health education in meetings organised at the village level. The faculty also conduct lectures in schools and colleges. The department also takes active part in celebrating World Health Day, World TB Day, World AIDS Day and more.



## DEPARTMENT OF OTO-RHINOLARYNGOLOGY (ENT)

**PROGRAMS OFFERED**  
**UNDERGRADUATE COURSE:**  
**MBBS**  
**POSTGRADUATE COURSE:**  
**MS (ENT)**

The Department of Oto-Rhinolaryngology (ENT) is equipped with advanced infrastructure facilities including ICT enabled classrooms, state-of-the-art teaching aids like a Temporal Bone Lab, a museum with teaching charts and pathology specimen, cadaver dissection facilities and LCD projectors, major OT with ZEISS operating microscope, Microdebrider STORZ for sinus surgery, Nerve stimulator/monitor and a Nasopharyngolaryngo scope with trained technical staff.

Our students get to work on exclusive research projects and attend a diverse array of patient profiles as part of their hands-on clinical teaching experience. The department has a well-equipped Audiology and Speech department with facilities for Pure Tone Audiometry / OAE / Tympanometry and BERA for neonatal screening and advanced assessment, specialty clinics and cancer screening apart from value-added programs and facilities for patients.

## DEPARTMENT OF SURGERY

**PROGRAMS OFFERED**  
**UNDERGRADUATE COURSE:**  
**MBBS**  
**POSTGRADUATE COURSE:**  
**MS (SURGERY)**

The department engages in inter-institutional collaborative projects and and student projects in collaboration with the ICMR at the national level and receives the associated grants. The department takes part in many international, multi-centre, US FDA-approved clinical drug trails since 2010.

The department also has specialised clinics and consultations for proctology, diabetic foot, pain-management, onco surgery, C.T.V.S., Urology, Emergency

and Trauma, Minimal Invasive Surgery, Endoscopic procedures and GI Surgery. The department has conducted many hands-on workshops and state-level annual conferences on Surgery which has been well appreciated by the National Surgery Team.

The faculty comprises of well-qualified, experienced and skilled staff members, trained in Advanced Laparoscopy and Bariatric Surgeries.

The department library has reference books and offers access to hundreds more in the central library.

## DEPARTMENT OF PSYCHIATRY

**PROGRAMS OFFERED:**  
**UNDERGRADUATE COURSE:**  
**MBBS**  
**POSTGRADUATE COURSE: MD**

The Department of Psychiatry is highly acclaimed in its clinical practice, academic excellence pursuits and research contributions. The department employs a multi-specialty approach, covering special clinics like de-addiction, geriatrics, child guidance, psychomotor clinics, memory clinics, family counselling and also deals with epilepsy & sexual medicine.

The department is equipped with the latest infrastructure facilities including ICT enabled classrooms, state-of-the-art labs and equipments such as electro-encephalogram (EEG), Electro convulsive Therapy (ECT), Biofeedback, Alcohol breath analyser and all the psychological test materials. The department has a 24 hour helpline dedicated to providing immediate and urgent psychiatric help to those in distress.

The students and staff are given the privilege of participating in extension activities like community programs offered in collaboration with the Tumkur District Mental Health Program Authority and the District Hospital and the "Mano Chaitanya" program across four taluk hospitals in Tumkur district. This is done as a part of the National Mental Health Program on Tuesdays in association with the Tumkur District Mental Health Program.

## DEPARTMENT OF DERMATOLOGY

**PROGRAMS OFFERED**  
**UNDERGRADUATE COURSE:**  
**MBBS**  
**POSTGRADUATE COURSE:**  
**MD**

The faculty of dermatology are professionally well-trained for specialty services like clinical dermatology, leprosy, venereology, cosmetic dermatology, dermatosurgery services, LASER, phototherapy and other procedures.

The department library is an extensive resource of reference books giving the staff and the students access to world-class research material in the area.

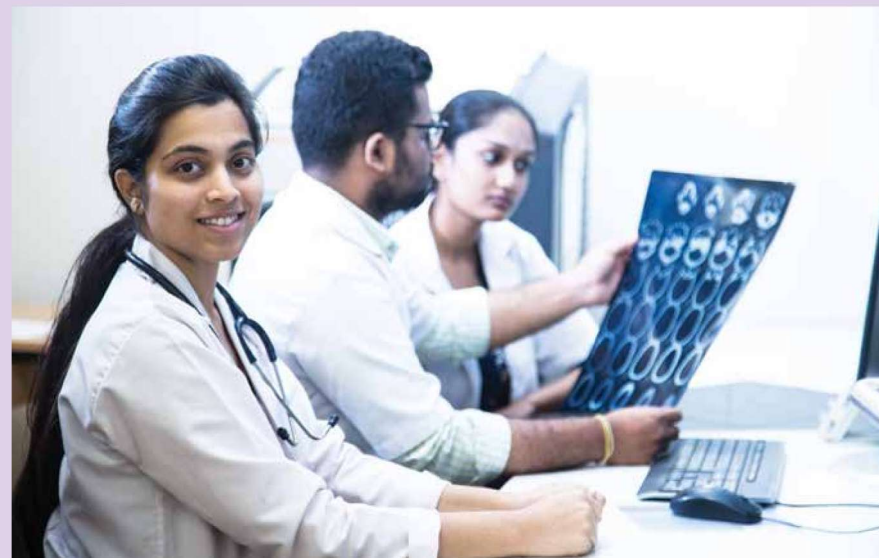
By encouraging students to actively work with experienced professionals, the department helps students bridge the gap between theory and practice, equipping them to handle real-life contingencies.

## DEPARTMENT OF OBSTETRICS AND GYNAECOLOGY

**PROGRAMS ON OFFER**  
**UNDERGRADUATE COURSE:**  
**MBBS**  
**POSTGRADUATE COURSE:**  
**MS (OBSTETRICS AND  
GYNAECOLOGY)**

The faculty are well-qualified and experienced staff members. The department's dedicated research centre has been recognized by the state and also nationally and internationally. The facilities provided for research include an IVF centre equipped with an electron microscope, 4D Ultrasound scanning machine, cryopreservation facility, incubators, laminar flow equipment, colposcopy, operative Karl Storz laparoscopy and hysteroscopy, a well-equipped labour room with a CTG machine, bedside ultrasound, a ventilator, a genetic lab, a central research lab, a blood bank with components, an expansive library with reference books, journals, technological resources and internet facilities.

The department also consults in areas such as antenatal care, high risk pregnancy care, normal delivery facilities,



caesarean section, instrumental delivery facility (available 24/7), emergency obstetric care, MTP facility, family planning and contraception facility and all types of gynaec surgeries including laparoscopy and hysteroscopy.

The department encourages further scholarly pursuits by providing access to specialized books and reference materials from the field.

## DEPARTMENT OF GENERAL MEDICINE

**PROGRAMS OFFERED**  
**UNDERGRADUATE COURSE:**  
**MBBS**  
**POSTGRADUATE COURSE:**  
**MD**

The unique methodology introduced by the faculty of this department, include, clinical teaching, clinical seminars, bedside clinics, interesting case presentation, reviews of departmental research work, subject seminars, short topics, a journal club, drug reviews, medical auditing and faculty lectures.

The department library is stocked with adequate research material and reference

books to provide additional guidance in the pursuit of knowledge in this area.

Our students get to work on exclusive research projects and attend a diverse array of patient profiles as part of their hands-on clinical teaching experience. The department also offers Cardiology, Nephrology, TB and Chest medicine and Neurology Services.

## DEPARTMENT OF ANAESTHESIOLOGY

**PROGRAMS OFFERED**  
**UNDERGRADUATE COURSE:**  
**MBBS**  
**POSTGRADUATE COURSE: MD  
(ANAESTHESIOLOGY)**

The Department of Anaesthesiology provides services to various surgical specialties and sub specialties via the major OT complex which comprises 10 major operation theatres equipped with state-of-the-art workstations, anaesthesia monitoring systems and Laminar flow AC systems. The department has the latest equipment such as Videolaryngoscopes, a USG machine and a fiberoptic bronchoscope. The department also manages separate Casualty OT and Septic OT. The department runs a seven-bedded PICU with the latest monitors and a seven

bedded ICU equipped with advanced ventilators, monitors and Blood Gas Analyzer machines. The department also extends services to the ICCU and a surgical ICU. The ICU has a separate CSSD with a double door autoclave and an ETO sterilizer functioning round the clock. A dedicated pain clinic operates every Friday for chronic pain disorders and pain services for acute pain management.

The department engages in inter-institutional collaborative projects and has an excellent, well-qualified faculty team that organizes and conducts extensive academic programs and workshops such as CPR, Advanced Airway, USG guided Nerve Blocks, Echocardiography and Hemodynamic monitoring.

The department acts as a hub for various educational activities for both students and faculty to participate. The department also participated in the 67<sup>th</sup> ISACON 2019 (National conference of the Indian Society of Anesthesiologists), Bengaluru, with the Head of Department being the organizing chairman of the conference. The department library is well-equipped with the latest digital learning and internet facilities, and offers students access to the latest journals and reference books.





## DEPARTMENT OF ORTHOPAEDICS

**PROGRAMS OFFERED  
UNDERGRADUATE COURSE:**

**MBBS**

**POSTGRADUATE COURSE:  
MS (ORTHOPAEDICS)**

The department has specialised clinics for Hand surgery, Pediatric Orthopaedics, Arthroscopy and Arthroplasty, Spine and Fracture. The faculty also trained in Arthroscopy, Joint replacement and Spine surgeries.

The department library houses several books and journals with all the latest information in the area, making it the perfect place for nurturing intellectual growth.

Our faculty implement a unique pedagogical approach with a combination of methods like didactic lectures, power-point presentations with interactive sessions, case discussions - problem solving sessions and x-ray instruments and Orthotics discussions, pre and post operative planning sessions.

## DEPARTMENT OF RADIOLOGY

**PROGRAMS OFFERED  
UNDERGRADUATE COURSE:**

**MBBS**

**POSTGRADUATE COURSE:  
MD (RADIOLOGY)**

The Department of Radiology is equipped with invasive X-rays, Ultrasound, Doppler,

Mammogram, 15 slice CT Scan, 1.5 tesla MRI and the latest radiological techniques.

## DEPARTMENT OF PAEDIATRICS

**PROGRAMS OFFERED  
UNDERGRADUATE COURSE:**

**MBBS**

**POSTGRADUATE COURSE:  
MD (PAEDIATRICS)**

The department provides several opportunities such as the establishment of tertiary care paediatric and neonatal intensive care, research projects, establishment of sub-specialty clinics (Immunisation clinic, Pediatric cardiology, Pediatric pulmonology- asthma clinic,

Pediatric nephrology, Pediatric neurology and a Child Guidance Clinic) formulating novel community-oriented methods for common paediatric problems and faculty exchange programs with reputed universities. The department also organizes school health programs on a regular basis apart from Anaganwadi health visits and community health awareness programs on immunization and nutritional problems in children. The department also observes breast feeding week and breast feeding awareness among mothers and health workers like ANMs and nursing students. The department also involved in the training of medical officers in neonatal resuscitation programs on a regular basis.

The department library offers access to over a hundred reference books and holds subscriptions to journals of national and international repute.

## MEET THE MASTERMINDS

AT SSMC, our students get the unparalleled benefit of engaging with some of the finest experts in the field of Medicine and they also get to indulge in the privilege of rubbing shoulders with venerable alumni. The Department of Anatomy and the Genetics Lab are spearheaded by renowned specialists in Cytogenetics, Genetic Counseling and Molecular Biology.





# SRI SIDDHARTHA INSTITUTE OF MEDICAL SCIENCES & RESEARCH CENTRE, T. BEGUR

The Sri Siddhartha Institute of Medical Sciences & Research Centre (SSIMS & RC), a dream project of Late Sri Dr. G Shivaprasad, Hon. Chancellor, SSAHE and the most recent venture of the Sri Siddhartha Group of Institutions was conceptualized with the mission of leading the way as a 'friendly, philanthropic

guiding force to the inherent talents of students, helping them develop skills and well-rounded personalities in order to become better citizens of the nation'. The students are trained with all the required knowledge, skills, attitude, values and responsiveness so that they may function

appropriately and effectively as physicians who aim to provide "health for all".

Located 38 kms from Bengaluru city, off the Bengaluru-Pune highway, amidst the lush greenery, the campus is pollution-free and well-connected by road, rail and air.

## COMMITMENT TO CARE

The campus has an academic building housing the pre and para clinical departments, a hospital building with out-patient, in-patient services, 24hr casualty and emergency services, a round-the-clock well-equipped central laboratory, radiology and blood bank services. There are also state-of-the-art operation theatres which handle emergencies and elective surgeries. The hospital provides 24 x 7 ambulance

services, facilitating easy accessibility to medical services on the busy highway. The hospital information system maintains meticulous medical records enabling ready access to patient data, and the pharmacy caters to needs of the patients round the clock.

The year 2019-2020 marks the first batch of MBBS students from SSIMS and RC. Though in its infancy, the college is well-equipped to cater to the needs of the students.

Students are offered comprehensive support for academic growth and research through innovative teaching methods,

like e-learning, as per competent medical education standards, fulfilling the requirements of the apex body. The students are also provided various opportunities to showcase their talents at the university level, thus, encouraging them to participate in all curricular and extracurricular activities.

The library hosts an extensive collection of text books apart from a digitalized library. The campus is secure, student-friendly and offers ample amenities with separate accommodation for male and female students and a well-equipped gym.





## DEPARTMENT OF ANATOMY

The Department of Anatomy at SSIMS and RC is primarily focused on teaching and research and is equipped with state-of-the-art infrastructure facilities, including ICT-enabled classrooms, Demonstration rooms, a Dissection Hall, a Histology Laboratory, a Research Laboratory and a well-organised Museum.

The Anatomy Museum remains open to the general public, in an effort to disseminate knowledge and generate awareness. The department library offers exclusive reference books pertaining to Anatomy and related topics. Our well-qualified, experienced team of faculty members regularly attend inter-university conferences, CMEs, workshops and seminars; and contribute to a considerable number of academic publications. They are constantly on the look-out for innovative, integrated teaching methodologies and strive to inculcate ethical codes of conduct and values in our students – such as a deep-seated respect for the cadaver, as part of the AETCOM Module. The department offers a seamless array

of learning programs including Foundation Courses, Early Clinical Exposure, Self-Directed Learning Methodologies, Integrated Teaching and Learning Sessions as well as Skill Development and Training Modules.

## DEPARTMENT OF PHYSIOLOGY

The Department of Physiology focuses on imparting invaluable know-how on the maintenance of normal human bodily functions. Spearheaded by a team of well-qualified, highly motivated faculty members, the department follows the CBME curriculum as recommended by MCI and lays special emphasis on delivering comprehensive knowledge on Physiology. The campus is student-friendly and equipped with state-of-the-art infrastructure facilities conducive to research, including an ICT-enabled lecture galleries, demonstration rooms and state-of-the-art laboratories for Haematology, Human Physiology, Clinical Physiology and Research. The library offers exclusive reference books on Physiology and related subjects. The

Research Lab is well-equipped with a Digital Polyrite machine and equipment to carry out Pulmonary Function tests and Cardiac Autonomic Function tests. The department engages in inter-institutional collaborative, national-level funding projects and encourages students to take part in an array of academic endeavours and research projects such as ICMR, alongside extra-curricular activities and stress-relieving sessions like yoga and meditation. Expansion plans are underway for upgrading the laboratory through CAL (Computer Assisted Learning), the establishment of a Skill Lab and for facilitating hands-on training for the students in Clinical Physiology.

## DEPARTMENT OF PATHOLOGY

The Department of Pathology, is one of SSIMS's newly established departments, and yet, it is well-furnished with all the standard facilities and equipment required to handle basic patient investigations and is led by a team of well-qualified staff members. The Central Laboratory is equipped to handle samples in

Haematology, Cytopathology, Clinical Pathology and Histopathology, as well as Autopsies with an excellent turn-around-time. The newest library houses all the required books and recent reference materials to assist in scholarly pursuits. The department hosts the required infrastructure for higher investigative methods including Immunohistochemistry, Molecular Pathology and Genetics, with all requisite amenities, catering to the needs of all the students at par with MCI requirements. The campus houses a Lecture Gallery, a Demonstration Hall with AV aids, well-equipped Practical Halls, a Research room and a Museum with an excellent collection of specimens. Our well-trained enthusiastic team of faculty members maintain excellent track records, service and publications, and actively pursue courses in medical education and research, enabling higher investigative services. Our staff regularly attend relevant workshops, CMEs and conferences keeping themselves abreast of the latest trends and updates, in turn benefitting the student and the patient community.

## DEPARTMENT OF PHARMACOLOGY

The SSIMS and RC Department of Pharmacology is equipped with leading-edge infrastructure facilities including ICT-enabled classrooms, demonstration rooms, Clinical Pharmacology, Experimental Pharmacology and Research Labs, and an exclusive Museum. Practical Labs are equipped for Computer-Assisted Learning and with mannequins for hands-on experience of drug administration employing multiple techniques in a simulated environment. Research Labs, accessible to both faculty and students, are facilitated with various instruments for clinical studies including an ECG machine, Biothesiometers, Vascular Dopplers, IV Infusion Pumps, Spirometers and more. The Museum exhibits more than 200 essential drug samples and over 20 medicinal plant specimens to reinforce student learning. The department hosts an exclusive Pharmacovigilance Unit, actively involved in identifying and reporting adverse drug reactions in hospital patients; apart from a Clinical Pharmacology unit which undertakes Pharmacokinetic and Pharmacodynamic studies. The faculty

team is well-experienced, well-qualified staff members, who are well-versed in teaching, animal handling and research activities. All faculty members are entitled to financial support from the University, once annually for national events, and once every three years to attend International events. The team regularly attends inter-university conferences, CMEs, workshops and seminars and contributes to a considerable number of academic publications.

## DEPARTMENT OF BIOCHEMISTRY

The Department of Biochemistry at SSIMSRC, is committed to deliver quality services in all possible arenas of medical science, such as Medical Education, Diagnostics and Research and Development.

The team is equipped with well-qualified doctors, research associates and state-of-the-art infrastructural facilities.

The team is dedicated team of faculty members regularly upgrade their medical education, training continuously, and are up to date with the trends in disease diagnosis and management.

The department also participates actively in submitting research proposals for financial grants to DST / DBT / ICMR / VGST etc., frequently. As part of the government's initiative to explore more and more on the beneficial effects of yoga and meditation in health and various diseased conditions, the department has submitted two research proposals (one on Parkinson's Disease and the other on Diabetic Neuropathy) under the scheme

SATYAM 2019-2020, to the department of Science and Technology, Government of India, seeking their approval and financial assistance.

The team explores innovative teaching methodologies, and regularly contributes to academic publications. They train MBBS students regularly in all aspects of Curriculum Based Medical Education (CBME), like Early Clinical Exposure, Integrated teaching, AETCOM, Self-Directed Learning, Small Group Discussions, etc., in addition to traditional didactic lectures and UG-Practicals. The students are also exposed to various advanced biochemical techniques with varied applications in the field of medical science (like ELISA / Electrophoresis / Chromatography / PAGE etc.). They are even encouraged to take up research projects.

With the help of hi-tech audio-visual aids available on campus, the students experience a virtual journey through various biochemical events that happen in the human body. The department library is equipped with many books, including reference books and various indexed journals. Both the departmental research laboratory and the UG-practical laboratory are equipped with the latest instruments.

The department also dedicates its time and efforts in training B.Sc. Nursing students and various paramedical courses.

The diagnostic unit of SSIMSRC hospital is committed to providing accurate, precise and timely results in a cost-effective manner 24x7 and proudly offers novel diagnostic services (like Troponin I, CK-MB, Thyroid Profile testing) etc., in addition to routine biochemical tests like Blood Sugar estimations, LFT, lipid profile, serum electrolytes, ABG analysis etc.







## DEPARTMENT OF MICROBIOLOGY

The Department of Microbiology at the Sri Siddhartha Institute of Medical Sciences and Research Centre provides comprehensive and exemplary academic, research and laboratory services. The laboratory services cater to the rural population by providing quality diagnostics at reasonable rates.

Health awareness programs are organised regularly by the department, for doctors, nursing staff, medical and nursing students, technical staff, housekeeping and sanitary workers. Education and teaching of communicable diseases and preventive measures are made available to a wide range of professionals. The department contributes and participates actively in the Hospital Infection Control Committee and give timely recommendations. The department also co-ordinates with government programs like RNTCP, ICTC and takes up research projects which are funded by the Government, Universities and Colleges. The department also plans to start Postgraduation and PhD programs in the near future.

The department has a team of experienced, well trained, dedicated teaching faculty to provide quality education to medical students. Air conditioned and smart E-classrooms, demonstration halls with multimedia projectors, a practical hall equipped with individual workstations, a well-stocked library with national and international books and journals, charts and specimens, as well as museums with models are also available.

The faculty and students are encouraged to utilize the research facilities in the well-equipped departmental research laboratory. They are also aided in availing research grants for their projects from DBT, ICMR, DST etc. Clinical section laboratories like Bacteriology including Anaerobic, Immunology, Mycology, Virology, Parasitology, Mycobacteriology and Serology are available. BACTEC Culture System, ELISA, Biosafety cabinet, BOD and Bacteriological Incubator, Hot Air Oven, Vertical Autoclave, Binocular, Trinocular and Dark Ground Microscope with camera attachment and OT Sterility Testing are available.

Ongoing research projects in the department include projects on Hand Hygiene and Biomedical Waste Management and two SATYAM Yoga research project proposals that have been submitted for approval.

## DEPARTMENT OF FORENSIC MEDICINE AND TOXICOLOGY

The Department of Forensic Medicine and Toxicology is bound to the study and subsequent application of several areas of the medical sciences which are applied to the human body in order to assist the law for investigating a crime - dealing with all aspects of crime and the plausible reconstruction of events involved in the crime like murder, sexual assault, poisoning or a foul play as well as natural death. The study often uncovers the past in relation to the crime. The department deals with the Medico legal cases, in which the teachers and students of the medical college and doctors in general, work hand in hand with legal practitioners. Knowledge of medico-legal responsibilities are also imparted to the treating physician apart from various problems pertaining various problems pertaining to the practice of legal Medicine.

The department teaches about Medical Jurisprudence, Forensic Pathology, Viscera Packing, Application of Forensic Anthropology, Forensic Toxicology, Forensic Odontology, Forensic Radiology and Clinical Forensic Medicine. A well-experienced, trained and qualified team of teaching faculty run the department. The department is equipped with the most modern equipment to conduct Medico-Legal Autopsies, practicals and research activities for undergraduate students. The department is equipped with a good laboratory with adequate microscopes and specimens. Clinical Forensic Median services, Medico legal post-mortems in the Mortuary, Toxicology lab work and Court related work also come under the department.

Regular research activities for Undergraduates, Mock Court Trails, CMEs, and Workshops are undertaken by the department. The staff conduct medico-legal autopsy at a mortuary housed in a separate building which has a gallery for students to witness post-mortem examination. The Mortuary has facilities that preserve dead bodies like cold storage cabins and an embalming unit. With an overall aim to train the medical undergraduates within the national objectives pertaining to Medico legal responsibilities, this department unequivocally makes its best attempt to provide the best learning opportunities within its setup and within the required timeframe.

## DEPARTMENT OF MEDICINE AND ALLIED SCIENCES

The departments of Medicine, TB, Chest and Paediatrics are well equipped with state-of-the-art infrastructure and equipped with critical care units like intensive care, neonatal and perinatal intensive care and cardiac care as per MCI norms. The medical and allied departments have qualified, well-trained and dedicated staff, competent in handling all kinds of medical emergencies. They are assisted by a team of well-trained nursing personnel. The faculty update their professional knowledge and skills regularly through faculty development programs such as CMEs, workshops, journal clubs and seminars. They have an access to well maintained and catalogued library facilities.

The department is actively involved in contributing to the health of the community through regular health check-up camps, health programs and caters to the needs of the public by providing health services and treatment at affordable prices.





## DEPARTMENT OF COMMUNITY MEDICINE

The Department of Community Medicine was established in the year 2018. The goal of the department is to train and empower medical students to become competent first contact physicians who can work in primary care settings. It aims to build leadership qualities and it motivates them to be effective communicators and health educators. The department provides preventive, promotive and curative health services to the community.

The teaching and training methods adopted include lectures, small group discussions, seminars, clinic-social case discussions, problem-solving exercises, field visits and public health laboratory.

The department has a government affiliated Rural Health Training Centre in Thyamagondlu, Nelamangala, Bengaluru Rural District and government affiliate Urban Health Training centre at Makali, Bengaluru. The department is also tasked with implementing all national health programs in the affiliated health centres and it also conducts epidemiological research and training programs and supports the research activities of other departments by giving epidemiological and statistical assistance.

The department is well-equipped with a practice hall, a museum and a library. The department conducts regular health camps in villages nearby, provides health care, referral services and relevant health education. School health camps and Village health clinics are also organized on a regular basis. The department also intends to produce professional and ethical public health specialists for the nation.

## DEPARTMENT OF RADIOLOGY

The Department of Radiology and Imaging is equipped with state-of-the-art equipment and facilities of the highest standards. The department is currently functioning with modalities like Digital Radiography and high-end, high-quality Ultrasound equipment. The department provides high-quality diagnostic services to the rural population at an affordable cost.

The department's mission is to give comprehensive diagnostic imaging services of high-quality to achieve optimal outcome. As the institution is situated in the outskirts of Bengaluru, it is committed to improve rural healthcare by achieving excellence in diagnostic imaging and image guided procedures by proving both inpatient and outpatient diagnostic services to the much-needed rural population. This includes general radiology, X-ray procedures, abdominal and obstetric ultrasound, Doppler studies, Musculoskeletal imaging, Ultrasound guided interventions. The department also provides diagnostic services to the emergency department, operation theatre and intensive care units.

The services of the Radiology Department are provided by highly qualified, well-trained, radiologists of international standards supported by professional radiographers, technical staff and clerical staff, giving fast, relevant, accessible and accurate radiology and imaging services. The department follows the protocols of international standards for diagnosis and interventions.

The department is inclined and working towards a new academic curriculum for MBBS, which includes the introduction to Radiology in the very first year of medical education as a part of vertical teaching

methodology. Hence, regular teaching and training sessions are conducted for the MBBS and the other allied courses of the institution.

The department is on the road to imparting excellence in training medical students, residents and technicians, by encouraging scientific enquiry among the faculty and the students to increase the quality of clinical, diagnosis and research. Apart from patient services and academic activities, clinical research work is also an ongoing activity in the department.

## DEPARTMENTS OF SURGERY AND ALLIED SCIENCES

The SSIMS and RC hospital has excellent infrastructure for all surgery and allied subjects. The hospital endeavours to provide standard management for surgical patients. The staff of General Surgery, Orthopaedics, OBG, ENT and Ophthalmology are enthusiastic, hardworking and dedicated, with the ability to operate basic, advance and emergency surgeries compliant with international standards, recent protocols and advances. The department has achieved overwhelming results in shorter recovery time of patients, which has further motivated the team to extend their surgical services far and beyond. With the aim of being better, they are exercising a multidisciplinary approach, not only through regular interdepartmental CMEs and conferences but through village camps, reaching the unreached and educating them about good personal and community health, offering services at meager costs through a unique Health Card Scheme, thus fulfilling the motto 'HEALTH FOR ALL'.



# SRI SIDDHARTHA DENTAL COLLEGE, TUMKUR

Sri Siddhartha Dental College (SSDC), Tumkur, was founded in the year 1992 under the aegis of the Sri Siddhartha Academy of Higher Education, with the vision of pursuing excellence in the science and the art of dentistry through education, research and service.

Over the years, SSDC has evolved into an institution of repute, en-comprising of highly skilled oral healthcare specialists who provide excellent patient centred oral health care, while constantly redefining new standards for dental education and thus, promoting comprehensive oral health care policies that address the needs of the society.

## PROJECT SMILE

Spreading smiles through quality patient care, going above and beyond the role of an educational institution designed to develop the country's finest talents in the field of dentistry, Sri Siddhartha Dental College is dedicated to providing comprehensive health care to the general public, covering an end-to-end array of specialties, including adult and pediatric dental care, with a special emphasis on prevention of dental diseases, by leveraging state-of-art, sophisticated techniques.

## DRIVEN TO CARE

### OUR MISSION:

To provide top-notch comprehensive dental care for patients and the community at large, to impart quality education in the art and science of dentistry, to hone qualified dental

practitioners who uphold core ethical values and to enable a nurturing environment that facilitates best-in-class training, research and development in the field of dentistry.

## WE BELIEVE IN PATIENT RIGHTS

■ **Patient-Centred Care:** At SSDC, our actions are constantly focused on providing excellent patient service in a warm and welcoming environment. We treat each patient with respect, just like we would treat our own family.

■ **Responsibility:** Every individual at SSDC remains obliged to uphold the institution's core mission and values. This calls for accountability for individual actions and a commitment to offering every patient the very best effort, every single day.

■ **Integrity:** We behave with the highest level of honesty, ethics and integrity at all times. We will always support people who do what is right, and will speak up if we see or hear something that doesn't seem right.

■ **Teamwork:** We can accomplish more together than as individuals. Success requires us to work together and treat each other with respect. This in turn requires us to communicate often, openly and constructively, and to be open to a point of view different from our own.

■ **Excellence:** We relentlessly pursue the highest level of performance in every clinical activity. This requires hard work, continuous improvement, and a constant focus on quality.

SRI SIDDHARTHA DENTAL COLLEGE AND HOSPITAL



## DEPARTMENT OF ORAL MEDICINE AND RADIOLOGY

### PROGRAM OFFERED UNDERGRADUATE COURSE: BACHELOR OF DENTAL SURGERY (BDS)

The Department of Oral Medicine and Radiology is concerned with the diagnostic evaluation and medical management of patients with complicated and unusual oral diseases, oral ulcerative diseases, TMJ disorders, oro-facial pain, oral malodour, oral manifestations of systemic diseases and other oral diseases.

The department has two sections; Clinical and Radiology. The latter is divided into Intraoral and Extraoral Radiology. The equipment available in Intraoral Radiology are two 70kvp Intraoral Radiography machines as well as one Orthopantomogram with the Cephalometric Unit. The department also has a Phantom Head Radiology Unit for training students in Intraoral Radiography.

Our dedicated faculty improve and broaden their knowledge, expertise and competence through Continuing Dental Education (CDE). The team explores innovative, integrated teaching methodologies and regularly contribute to academic publications.

The teaching program for undergraduate students includes an intensive academic curriculum

in ICT enabled smart classrooms that provide a broad understanding of the pathophysiology of diseases, and clinical training that is aimed at giving exposure to the diagnosis and treatment of a full range of oral conditions, including the assessment and management of systemic diseases with oral manifestations and the dental management of medically complex patients.

## DEPARTMENT OF PERIODONTICS

### PROGRAMS OFFERED UNDERGRADUATE COURSE: BACHELOR OF DENTAL SURGERY (BDS) POSTGRADUATE COURSE: MASTER OF DENTAL SURGERY (MDS)

The Department of Periodontics is equipped with modern infrastructure facilities including ICT enabled classrooms, state-of-the-art labs, equipment, instruments and materials. The department is also credited with giving excellent medical care for about 45 - 50 patients per day.

The department engages in inter-institutional collaborative projects and national level ICMR collaborative student projects and has received the associated grants. The faculty comprises well-qualified and experienced staff members, with necessary instructions and clinical experiences dealing with etiology, diagnosis and treatment of supporting structures of the teeth.

Our dedicated team of faculty undergo continuing dental education. The team explores innovative, integrated teaching methodologies and regularly contributes to academic publications.

The surgical procedures done by the department include Mucogingival surgeries, Flap surgeries, and Bone Grafting, GTR, Gingivectomy and Frenectomy. Advance procedures like lasers, Implants, growth factors like PRP, etc., are also done in the department routinely.

Our students get to work on exclusive research projects and attend to a diverse array of patient profiles as part of their hands-on clinical teaching experience. Faculty and students enjoy access to the internet and ICT enabled classrooms.

## DEPARTMENT OF ORAL AND MAXILLOFACIAL SURGERY

### PROGRAMS OFFERED UNDERGRADUATE COURSE: BACHELOR OF DENTAL SURGERY (BDS) POSTGRADUATE COURSE: MASTER OF DENTAL SURGERY (MDS)

The Department of Oral and Maxillofacial Surgery's scope includes diagnosis and management of facial injuries, head and neck cancers, salivary gland diseases, facial disproportion, facial pain, impacted teeth, cysts and tumors of the jaws.

The Department of Oral and Maxillofacial Surgery has state-of-the-art classrooms that are ICT enabled and demonstration rooms, all provided with internet access for staff and students. The department has a well-equipped Operation Theatre and ICU with a dedicated team of anaesthetists, equipped with all the latest equipment like Stryker kit (Oscillating surgical saw), Piezo surgical kit and Dental implant kit.

The department adopts a combination inclusive of seminars, discussions, journal article reviews and clinical case discussions, problem-based learning and enrichment programs (to improve the clinical acumen of the students). Ongoing dental education programs are conducted regularly with external experts invited to enhance the knowledge in the field as a part of its pedagogy.

Our dedicated team of faculty undergo continuous medical education. The team explores innovative, integrated teaching methodologies and regularly contributes to academic publications.

The department also affiliates with external institutions like the Kidwai Cancer Institute, Bengaluru, for training postgraduates in subjects like Oral Cancer.



## DEPARTMENT OF PROSTHODONTICS AND CROWN BRIDGE

**PROGRAMS OFFERED**  
**UNDERGRADUATE COURSE:**  
**BACHELOR OF DENTAL SURGERY (BDS)**  
**POSTGRADUATE COURSE:**  
**MASTER OF DENTAL SURGERY (MDS)**

Prosthodontics is the field of Dentistry pertaining to the restoration and maintenance of the oral function, comfort, appearance and health of the patient through the restoration of natural teeth and/or replacement of missing teeth and craniofacial tissue with artificial substitutes.

The SSDC Department of Prosthodontics and Crown Bridge is equipped with adequate infrastructure facilities including ICT enabled classrooms, demonstration rooms, state-of-the-art equipment, student labs and research labs.

The department is designed to equip students to become specialists in Prosthodontics and skilled clinicians with a strong research background. The department maintains continued advancement of knowledge in Prosthodontics through the integration of basic and advanced sciences with clinical research. The department also provides high-quality health service.

The objective of the department is to carry out treatment for patients in the field of Implantology, Aesthetic dentistry and conventional as well as specialized partially edentulous and complete edentulous situations in providing an overall oral rehabilitation for the comfort confidence build-up of patients.

Our students get to work on exclusive research projects and attend to a diverse array of patient profiles as part of their hands-on clinical teaching experience. The faculty and students enjoy access to the internet and ICT enabled classrooms.

## DEPARTMENT OF PEDODONTICS AND PREVENTIVE DENTISTRY

**PROGRAMS OFFERED**  
**UNDERGRADUATE COURSE:**  
**BACHELOR OF DENTAL SURGERY (BDS)**  
**POSTGRADUATE COURSE:**  
**MASTER OF DENTAL SURGERY (MDS)**

The Department of Pedodontics and Preventive Dentistry is equipped with adequate infrastructure facilities including ICT enabled classrooms, state-of-the-art labs and equipment.

The department is provided with a well-furnished play area to make visits enjoyable and positive for children. The staff members have mastery over behaviour management techniques to manage difficult children and instill a positive attitude towards dentistry. However, the most uncooperative children are treated under conscious sedation and general anaesthesia. A separate isolation room exists in the department to perform minor oral surgeries. The children with special health care needs (physically and mentally handicapped) are treated by the specialists carefully.

Our dedicated team of faculty undergo continuous medical education. The team explores innovative, integrated teaching methodologies and regularly contribute to academic publications. The department library has the latest editions of textbooks and specialty journals to update the knowledge of the students.

The students get to work on exclusive research projects and attend to a diverse array of patient profiles as part of their hands-on clinical teaching experience. The faculty and students enjoy access to the internet and ICT enabled classrooms.

School Dental Health Programs are conducted regularly by the department.

## DEPARTMENT OF ORAL ANATOMY, HISTOLOGY AND ORAL PATHOLOGY

**PROGRAMS OFFERED**  
**UNDERGRADUATE COURSE:**  
**BACHELOR OF DENTAL SURGERY (BDS)**  
**POSTGRADUATE COURSE:**  
**MASTER OF DENTAL SURGERY (MDS)**

Oral Pathology and Microbiology deals with understanding the cause, nature, process, identification and effects of diseases affecting the head and neck regions.

The Department of Oral Pathology is equipped with adequate infrastructure facilities including ICT enabled classrooms, state-of-the-art labs and equipment.

The department offers facilities such as a well-equipped Histopathology Lab, Biopsy and Cytology Services, a Research microscope (olympusbx 43) with Polarization, Darkfield, Phase Contrast, Fluorescent microscopy, Digital photomicrography and computer-assisted image analysis facility and Basic Haematology investigations. A Museum with - hard and soft tissue specimens for undergraduate teaching, an Immunohistopathology set-up, a Stereomicroscope and a Pentahead microscope.

Our students get to work on exclusive research projects and attend to a diverse array of patient profiles as part of their hands-on clinical teaching experience.





## DEPARTMENT OF ORTHODONTICS AND DENTOFACIAL ORTHOPAEDICS

**PROGRAMS OFFERED**  
**UNDERGRADUATE COURSE:**  
**BACHELOR OF DENTAL**  
**SURGERY (BDS)**  
**POSTGRADUATE COURSE:**  
**MASTER OF DENTAL SURGERY**  
**(MDS)**

Orthodontics and Dentofacial Orthopaedics is a specialized branch of dentistry that deals with the understanding of occlusion along with prevention, interception and correction of malocclusion. The department is also involved in learning programs that teach patient care, research activities and conducting continuous dental education programs that continuously update the students and staff with the latest advances in the specialty.

The Department of Orthodontics & Dentofacial Orthopaedics is equipped with state-of-the-art infrastructure facilities including ICT enabled classrooms, labs and all the required equipment.

The treatment facilities offered by the department includes Removable Orthodontic Appliances, Removable Functional Appliances, Fixed Functional Appliances, Fixed Orthodontic Appliances – Preadjusted edgewise appliance (MBT), Fixed orthodontic appliances – Preadjusted edgewise appliance (Roth), Fixed orthodontic appliances – Beggs technique, Fixed orthodontic appliances – Self ligating brackets, Fixed orthodontic appliances – Aesthetic brackets, Fixed orthodontic appliances – Preadjusted edgewise appliance with loop mechanics, Lingual orthodontics, Orthopaedic appliances, Clear aligners, Special cases – Cases with cleft lip and palate, Removable retainers, Fixed retainers and Orthognathic surgical cases.

Our dedicated team of faculty undergo continuous dental education. The team explores innovative, integrated teaching methodologies and regularly contributes to academic publications.

Our students get to work on exclusive research projects and attend to a diverse array of patient profiles as part of their hands-on clinical teaching experience.

## DEPARTMENT OF PUBLIC HEALTH DENTISTRY

**PROGRAM OFFERED**  
**UNDERGRADUATE COURSE:**  
**BACHELOR OF DENTAL**  
**SURGERY (BDS)**

The foundation of the department is based on the philosophy of “Prevention is better than cure” and we try to adopt this in the daily functioning of the department. Since the campus is situated in a rural area the vision of the department is to provide affordable and state-of-the-art preventive methods and treatment facilities to the rural masses.

The Department of Public Health Dentistry is equipped with adequate infrastructure facilities including ICT enabled classrooms, state-of-the-art labs and equipment.

The faculty comprises well-qualified, experienced and research-oriented staff members.

Our dedicated team of faculty undergo continuous dental education. The team explores innovative, integrated teaching methodologies and regularly contributes to academic publications.

The department conducts oral health screening and treatment camps regularly in rural areas followed by oral health education on common oral diseases. The department has a fully equipped Mobile Dental Van accommodating two dental chairs for treatment of patients in dental camps. The department has a Tobacco Cessation Centre for counselling of patients with tobacco dependency and a Dental Museum for educating patients.

The students in the department are trained to recognise the oral health needs of the population at large and trained to tackle oral health problems at a mass level. House surgeons are posted in rural areas for three months to understand the health problems of the rural masses and also to appreciate the rich cultural diversity of our country.

## DEPARTMENT OF CONSERVATIVE DENTISTRY AND ENDODONTICS

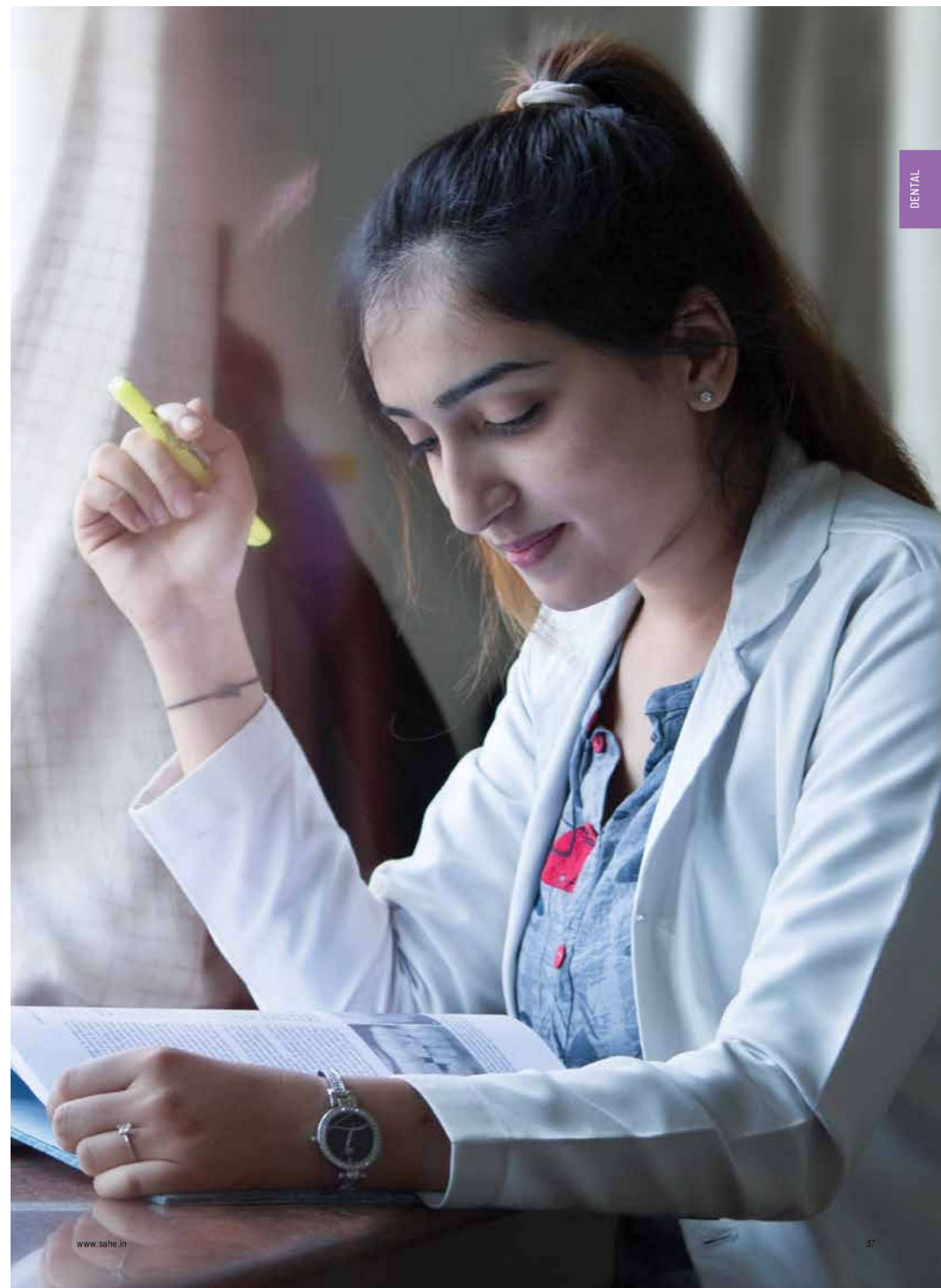
**PROGRAMS OFFERED**  
**UNDERGRADUATE COURSE:**  
**BACHELOR OF DENTAL**  
**SURGERY (BDS)****POSTGRADUATE**  
**COURSE: MASTER OF DENTAL**  
**SURGERY (MDS)**

The Department of Conservative Dentistry and Endodontics is a specialized branch which deals with the diagnosis and the management of defective, injured, decayed and infected teeth to establish function and aesthetics. The department includes highly trained faculty and is equipped with infrastructure facilities including ICT enabled classrooms, demonstration rooms, state-of-the-art labs and equipment, student labs and research labs.

The department is well-equipped with the latest instruments and devices. In addition, the department has a well-furnished laboratory for fabrication of ceramic restorations.

The treatment facilities of the department include Endodontic therapy, Restorations (Silver Amalgam, Composites and Glass ionomer), Cast metal restorations (Inlays and Onlays), Full veneer crowns, Ceramic and composite veneers, Bleaching of discoloured teeth, Endodontic surgery, Micro dentistry with the aid of Dental Operating Microscope, Caries preventive treatment, Aesthetic dentistry and Laser-assisted endodontic and surgical therapy. The key features include subjects like Micro dentistry, Aesthetic dentistry and Laser-assisted treatment.

The teaching methodology includes Innovative teaching techniques, collaboration with other esteemed medical, dental and engineering institutions to improve postgraduate learning, problem-based learning, enrichment programs, inter-departmental presentations and meets. The faculty comprises well-qualified, experienced staff members. Our dedicated team of faculty undergo continuing medical education.





# SRI SIDDHARTHA INSTITUTE OF TECHNOLOGY, TUMKUR

From Leonardo Da Vinci to the Wright Brothers, Nikola Tesla, Henry Ford and Alan Emtage, to Ellen Ochoa, Satya Nadella, Sundar Pichai and Elon Musk, our world has been a better place thanks to the incredible innovations of some of the finest engineering minds. Throughout history, engineers have provided humanity with invaluable advancements that have enhanced the way the world works, travels, communicates, stays healthy and entertains. At Sri Siddhartha Institute of Technology (SSIT), our mission is to mould technically competent, confident and socially responsible engineers. Specialists are skilled and industry-ready to solve complex science and technology challenges today, and raring to face the future as well. SSIT was conceptualized in the year 1979 under the ambit of the Sri Siddhartha Education Society (SSES), Tumkur. Today, the Institute runs 9 comprehensive programs in Bachelor

of Engineering (BE), 7 Postgraduate programs, and several Doctoral programs, apart from a Master of Computer Application program, with an average annual intake of up to 836 students. SSIT is also one of 14 Technical Institutions in Karnataka that has been awarded financial assistance by the World Bank, for its Technical Education Quality Improvement Program (TEQIP) – Phase II. The assistance will be utilized to further the quality of education, to enhance research activities, to establish a dedicated 'Centre Of Excellence', and for the strengthening the University's Postgraduate program. The scheme is already under way, and large scale initiatives have been rolled out to facilitate a congenial ambience for learning and research. The campus is equipped with state-of-the-art infrastructure and amenities. As part of the curriculum, SSIT students are actively

engaged in purposeful interactions with leading industries and other institutions of higher learning. The institute has signed MOUs with Mico-Bosch, TATA, Infosys, PROSYM, AIT, and several other leading industrial concerns across India. Internationally too, our one-of-a-kind MOU with the St. Louis University (pioneers of the oldest in use and time-tested Pilot Training Program for the Aircraft Industry, USA) and with North Dakota University, entitles our students and staff to avail of the cutting-edge advantages of an exclusive twinning program (Staff & Student Exchange Program). Needless to say, this is a first-of-its-kind program that has been made available to students of technology across University campuses in India.



# LIFE ON CAMPUS

Our learners enjoy a vibrant campus life, participating in academic, athletic, and inter-cultural engagements at the regional, national and international levels, while being actively involved in hands-on industry specific challenges and real-world community empowerment programs that make a difference right from the grassroots level. Facilities on campus include a multi gym, indoor gaming, football, volley ball, cricket and basketball

courts, among an array of multi-cultural, sporting, athletic, lodging, catering and other residential amenities. Siddhartha University scholars across disciplines have brought home medals and accolades in various inter-university events and students from across the country partake in the annual college cultural festival, the 'Kalotsava'. At Siddhartha, we see classrooms as state-of-the-art integrated learning spaces where learners

benefit from positive student-teacher relationships and address real-life scenarios with confidence, while training to apply innovative technology-empowered problem-solving skills. Close to forty leading industries frequent the campus annually, averaging 150+ placements consecutively over the last three years.





# MISSION POSSIBLE

- | To impart fundamental, future-centric, industry-ready knowledge in science and technology
- | To create a progressive, conducive ambience for empowered learning
- | To nurture creativity and innovative problem-solving in students
- | To instill real-world managerial, entrepreneurial and soft skills
- | To enable positive contributions that meet societal needs
- | To make learning across disciplines, perceptive and rational
- | To inculcate a spirit of enquiry that transcends boundaries
- | To evolve as a trusted destination for quality science and technical education



# CAMPUS PLACEMENTS

SSIT'S PLACEMENT RECORD OVER THE LAST 3 YEARS HAS BEEN AN AVERAGE OF 150 STUDENTS ACROSS AN ARRAY OF LEADING-EDGE INDUSTRIES.



# ROOTS AND WINGS

At SSIT, we believe there are two gifts you can endow a student with: Roots and Wings.

Wings to Fly and Roots to Stay Grounded.

Over the years, SSIT has shaped the careers of numerous student scholars across a wide spectrum of technology-based and non-technical industries. But, it is not just careers that are made here, it is personalities too.

We pay a lot of attention to the development of the student as an individual - sharpening their know-

how and technical skills for industry-readiness, while all along, taking a deep interest in honing their ethical perspectives for real-life readiness.

Our graduate, research and undergraduate programs are consistently gauged for levels of faculty and student engagement across various parameters - of learning, retention, the quality and diversity of our service projects, student success in professional competitions, post-graduate achievements, and last but not the least significant, our faculty and student contributions to the profession and the community.

Rest assured, when a student seeks admission to SSIT, he or she is guaranteed an all-round holistic education that is not just technically sound, but supercharged with an inherent sense of social responsibilities too.





# THE SSIT LIBRARY

The SSIT central library has been built to international standards, with state-of-the-art facilities holding a "Geodesic dome design" and sprawls over 2945 square meters across four floors.

A storehouse of information, it is replete with specialized books, journals, e-resources and other non-book support materials for educational, research and public service programs that meet and exceed all the syllabi requirements - in Basic Sciences, Engineering, Technology, Humanities and Social Sciences.

SSIT subscribes to 216 National and International Journals and offers DELNET services as well. The faculty and students are regularly involved in the development and assessment of the library resources and services. Collaborative exchanges with other libraries and agencies apart from orientation programs and personal assistance programs for research and reference, are offered to both faculty and the students.

THE CENTRAL LIBRARY BUILDING, SSIT





# SSIT DEPARTMENTS

## CIVIL ENGINEERING

Civil Engineering plays an integral role in urban, rural planning and infrastructure development. The course prepares students to design and construct an end-to-end array of residential, industrial, transportational, infrastructural and commercial projects and ventures. Civil Engineers are sought after for planning, designing and execution of various national and international projects by construction firms and various governmental departments.

The SSIT Civil Engineering course is divided into eight semesters covering theoretical and practical training.

Our Department of Civil Engineering is led by a team of well-qualified, experienced faculty members, and boasts modern equipment that cater to all the educational requirements of the Undergraduate and Postgraduate courses. The department also offers consultancy services to the government and various private agencies.

## COMPUTER SCIENCE AND ENGINEERING

Initiated in 1985, the SSIT Department of Computer Science and Engineering is committed to nurturing competent, innovative computer engineers who are quality-driven and well-versed with state-of-the-art technologies and technical know-how. Recognized as a renowned academic and research centre catering to the needs of the student community in the areas of Networking, Artificial Intelligence and Data Mining technologies. The department works around the objective of developing consultancy solutions for industrial sectors while continuously enhancing the technical expertise of its student community, thus, equipping them to cater to the needs of the society. The department offers excellent infrastructure and laboratories led by a dedicated team of well-qualified faculty members. The courses are designed at par with current trends so as to meet and exceed the dynamic demands of IT industries.

In view of the worldwide shortage of skilled man power in IT industries, the department strives to channelize the talented youth of the region by honing their skills in this challenging and knowledge intensive field by imparting quality technical knowledge and skills.

## MECHANICAL ENGINEERING

Mechanical Engineering plays a pivotal role in mechanization and infrastructure development around the world. The SSIT Mechanical Engineering Course is designed to enable students to plan and design state-of-the-art manufacturing and industrial systems, along with the maintenance and control of equipment in the Energy, Automobile and Aeronautical sectors. The Course is divided into eight semesters, including theoretical and practical training along with mini projects.

## ELECTRICAL AND ELECTRONICS ENGINEERING

Electrical Engineering plays an integral role in power generation, transmission and distribution. Electrical Engineers are in demand across the electrical utility industries and various national and international electrical equipment and manufacturing companies, research and development organisations in various professional and academic capacities. The SSIT Electrical and Electronics Engineering course is divided into eight semesters with theoretical and practical training being offered along with field visits to industry and to power plants. The course prepares the students extensively for planning, commissioning and testing of power systems.

## ELECTRONICS AND COMMUNICATION ENGINEERING

Electronics and communication Engineering is an ever-growing industry in today's digital scenario, pertaining to the transmission of information across channels, applying science and mathematics to solve practical problems in the field of Electronics and Communication.

Electronics and communication engineers engage in research, design, development and testing of electronic equipment used in various communications systems. The modern world owes a lot to Electronics engineers for the innovation of modern communication devices including cellular telephones, radios and televisions. Specialists in the field deal with electronic devices and software applications that serve as an interface between the chip level hardware and the end user.

At SSIT, our students engage in a comprehensive core study of the field of Communication & Electronics - spanning design, digital electronics, fundamentals of electronics engineering, signals and circuits, electronic circuits, VLSI, power electronics, computer architecture and control systems. SSIT Graduates & Postgraduates are qualified for professional practice and are industry-ready, capable of being employed in several niche areas of specialization. The department prepares students to be professional engineers, offering a well-rounded education deep-diving into the fundamental principles presented in the context of real-world application and design.

The SSIT Electronics and communication Engineering Department is spearheaded by a team of well qualified, experienced faculty members, with a noteworthy research background. The department regularly organizes seminar, workshops, and invited talks to enrich the academic ambience of the Institute, which helps for their placement in reputed companies in the industry.





## ELECTRONICS AND TELE-COMMUNICATION ENGINEERING

Tele-communication Engineering plays a paramount role in connecting people on a common platform across an array of technological avenues. The SSIT Department of Tele-communication Engineering was established in 1992 and has today evolved and grown in to an exclusive centre of excellence in the area of Communication Engineering. The program is designed to impart end-to-end training across scientific and theoretical aspects, empowering aspiring professionals to meet the rising challenges in the IT and Telecom industries.

Requisite skills training is imparted to ensure that all SSIT graduates are assured of a sound knowledge in broadcasting, data communication, networks and tele-communication policies.

## INDUSTRIAL ENGINEERING AND MANAGEMENT

The SSIT Department of Industrial Engineering and Management was founded in 1984 with a view of integrating Engineering and Managerial skills to boost

the growth of industries. The curriculum trains young engineers in both managerial and technical skills, enabling them to steer ahead and make invaluable contributions across industrial and research organizations of global standards. The program prepares budding engineers to formulate the most effective and efficient methods, procedures and processes across manufacturing and management domains.

## INFORMATION SCIENCE AND ENGINEERING

Information Technology has revolutionised the computation and communication process and has been the backbone of technological upheavals that have transformed the way the world thinks and acts. The global economy will benefit tremendously from advances in IT in the years to come. The SSIT Department of Information Science and Engineering was established in the year 2000 with the vision of fulfilling the rising demand for highly qualified IT professionals across industries and academic institutions. The course trains aspirants in the field of information collection, processing and transmission technologies to face potential challenges that may encounter in the IT industry. Students are imparted with the requisite skills to employ relevant technologies to solve complex industry problems that can in turn impact the society at large. The

department also nurtures to fortify the entrepreneurial capabilities of aspirants.

## MEDICAL ELECTRONICS ENGINEERING

The SSIT Medical Electronics course is designed to train aspiring candidates to apply the latest electronic, instrumentation and computer skills and applications for the betterment of the medical field and in the service of mankind.

The department aims to serve as a valuable resource for the medical industry and the society at large, while emphasizing human values and striving to sustain the healthcare know-how and the heritage of the nation. Students are equipped with the required fundamental know-how and interdisciplinary problem-solving skills, and instilled with the confidence to excel in their chosen professional fields, and excel as innovation leaders in a global environment. The course is divided across four years, spanning eight semesters, incorporating practical training and theoretical coaching, and promises unique job opportunities across Bio-Medical industries.



# RESEARCH AND EXTENSION ACTIVITIES OF SSAHE

Research is an integral part of life at the Sri Siddhartha University of Medicine, Dentistry and Technology.

At SSMT, nearly 654 research papers have been published till date by our faculty members, including over 470 national and 184 international research papers.

The Sri Siddhartha Medical College and Research Centre has a biannual research publication that is an open access, peer reviewed, multidisciplinary journal, with both print and online versions on Medical and Allied Health Sciences. The journal provides a common forum where all the students and faculty of the medical, dental, nursing and allied can publish their research studies. The journal invites original papers, review articles, short

communications, case reports and case series.

Research in our college is exuberantly encouraged and is ingrained into every aspect of our lives. It is systematically carried out under specific areas of specialisations.

For instance, in the field of Genetics, the college is proud to be conducting a survey based in Tumkur district, assessing the prevalence of congenital anomalies, conducting cytogenetic studies in Down's syndrome, studying genetic abnormalities, conducting chromosomal studies in the association of polydactyly and cytogenetic evaluations of male infertility. The results of such surveys have been put to use to help the society through counselling, especially young couples,

creating awareness about Down's syndrome, chromosomal abnormalities of and more marriages, karyotyping studies for pregnant women with bad obstetric history.

The college takes pride in its students—ably guided by the faculty and funded by our institution—who present international papers on a regular basis, through ICMR approved projects during their tenure with us.

The Department of Surgery has taken up clinical trials to evaluate the safety and the efficacy of the gel formulation of esmolol hydrochloride in treating diabetic foot ulcers. This trial is a prospective, multicentred, randomized, double-blind phase 3 study which is funded by the NovaLead Pharma company.



Several community-based research programmes are carried out by the Department of Community Medicine aimed at creating awareness about diabetic retinopathy and the risk of coronary heart disease among diabetic patients of tertiary care hospitals in Tumkur district. The Institution thus creates a conducive atmosphere for research in which the keen student, researcher and faculty can thrive and blossom. Through research, they can serve the society by creating awareness and by instilling a consciousness of healthy living through social interaction.

Every year, SSDC organizes 'Research Methodology Training' for its first-year postgraduate students in the month of July. Students learn to apply various methodologies to pursue research in the field of dentistry and to develop a world-class synopsis and dissertation.

Our research programs are generously encouraged by the SSAHE university with the aid of exclusive research funding programs and incentives. The findings of each research paper are periodically presented and published across numerous national and international forums.

## RESEARCH STATISTICS (2010 - 2019)

Total Number of Publications	350
Google Scholar Citations	3000
Scopus Citations	507
H-Index Google Scholar	133
H-Index Scopus	56

At SSDC, this era of evidence-based dentistry has led all our treatment modalities to purely depend on research findings. Research has been the firm foundation for healthcare education at the Sri Siddhartha Dental College and Hospital, Tumkur. About 396 research publications have been published in national and international journals (PubMed, Scopus and peer reviewed, indexed journals) and even presented at national and international forums. Numerous research projects have been undertaken by our staff in association with government and non-government agencies.

The Sri Siddhartha Dental College and Hospital, Tumkur follows its vision of reaching the un-reached rural population through extension and social responsibility activities. Under the aegis of SSAHE, SSDC conducts many extension activities and field programs such as Oral Health Day, World Health Day, World No Tobacco Day, Yoga Day, Doctors' Day,

Oral Hygiene Day, Oral Health Month, National Tooth Brushing Day, World Anti-AIDS day and many more occasions to create awareness and serve the needy population.

To build a good personality and leadership qualities among our students, SSDC actively participates and conducts social activity programs like blood donation camps, school oral health programs, helmet awareness programs, Environment Day programs, awareness programs on issues related to the society (tobacco awareness, child abuse, drug abuse, Swachha campus, etc.) are conducted with the aid of role plays, street dramas, skits, and more, in association with NGOs, the Red Cross Society and other organizations. Till date, we have conducted over 1,131 camps and 477 social and outreach programs with active participation from our staff and students. Thus, we help in promoting a culture of social responsibility through a myriad of activities that address both our own competitive interests and welfare of the society as a whole.

SSIT accords priority for quality research in Engineering, Technology and Basic Sciences. Our Doctor of Philosophy (Ph.D.) Program in Engineering, Technology and Basic Sciences emphasizes quality research in thrust and priority areas. Over the years, SSIT has provided a highly supportive platform for research across all departments of engineering and basic sciences, facilitating student journeys with the required library materials, online resources and state-of-the-art lab equipment.

Presently, the university team comprises of 64 PhD qualified faculty members and 109 research scholars, pursuing research on various areas of engineering and technology. The quality of our research outcome is evidenced through publications in peer reviewed journals and conferences.

Exclusive 'Research Groups' of scholars and faculty members are formed in emerging areas and encouraged to apply for grants to national and international funding agencies.

The Institute also encourages entering into MoU-s with leading industries and R&D institutes for promoting research specializations that will benefit the society.

A large pool of highly experienced and talented senior faculty members

engaged in advanced areas of research, are available in all the constituent colleges of SSAHE. This has attracted many young aspirants from all over the country to pursue their doctoral studies at SSAHE. Currently there are many inhouse and external research scholars actively engaged in pursuing studies at out institutes for their Ph.D. Besides the availability of mentors, the college has set up several state-of-the-art research and analytical facilities in areas such as: HV-insulator breakdown and testing, sustainable infrastructure (wind and solar energy), electric vehicle technology, nanotechnology, additive manufacturing, tool and die design, digital - medical and integrated GIS and image processing, distributed generation, organic and polymer chemistry, thin film composites, hydrology and water resource engineering, health monitoring of structures, water quality parameters, cloud computing, etc. in addition to energy conservation and sustainable infrastructure through renewable energy initiatives, with support from government and private agencies to pursue advanced and relevant research in diverse areas.

To promote innovative thinking among students, the college has set up innovation and incubation centres. This has ensured that the students and faculty identify a unique problem in their field of study and suggest an innovative solution. To promote entrepreneurship, the college has set up the Science & Technology Entrepreneurial Park (STEP) in 2010 and the Entrepreneurship Development Cell (EDC) in 2012 with support from government and private financial institutions, to promote technology-based enterprises in the areas of electro-mechanical devices, software/ hardware designs, electrical and electronics, construction technology, and more. The Vocational Training Center (VTC) facility at SAHE has been recognized as a nodal center for several Government of Karnataka programs for identifying and assessing innovative ideas and for supporting innovators to build enterprises. More than 100 different domain related vocational training programs have been organized successfully at our VTC. The establishment of Centers of Excellence in different engineering and health domains caters to interdisciplinary research, incubation and innovation, resulting in out-of-the-box products and training programs.











**SRI SIDDHARTHA ACADEMY OF HIGHER EDUCATION**

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