

INTRODUCTION

Sree Chitra Tirunal Institute for Medical Sciences and Technology (SCTIMST) became an Institute of National Importance with the status of a University under the Department of Science and Technology, Govt. of India by an Act of Parliament (Act 52 of 1980). The joint culture of medicine and technology that the Institute pioneered more than three decades ago has come of age and gained unprecedented acceptance in India. Imbued with an inclination to venture into less-trodden domains, the Institute focuses on patient care of high quality, technology development of industrial significance and health research studies of social relevance. The emphasis is on development of facilities less readily available elsewhere in the country such as interventional radiology, cardiac electrophysiology, presurgical evaluation and surgery for epilepsy, microsurgery and deep brain stimulation for movement disorders, new biomedical devices and products, evaluation of medical devices to global specifications, new academic programmes and global public health networks.

The Institute has three wings – the Hospital wing, the Biomedical Technology wing and the Achutha Menon Centre for Health Science Studies wing. Excellent research and learning opportunities are available at these wings. This uniquely poised Institute has a dedicated team of clinicians, scientists and engineers devoted to high quality biomedical research, technological development and public health research.

The Institute's missions are:

- Promote research and development in biomedical engineering and technology
- Deliver high quality patient care in selected specialties and subspecialties
- Develop innovative postgraduate training programmes in advanced medical specialties, and biomedical engineering and technology.
- Participate in public health reforms through research, training and interventions.

The Sree Chitra Tirunal Institute for Medical Sciences & Technology Act, 1980, empowers the Institute to sponsor post-graduate programmes in medical sciences and biomedical engineering and stipulates that the medical degrees, diplomas and other academic distinctions granted by the Institute shall be recognized qualifications for the purpose of the Indian Medical Council Act and that they shall be included in the First Schedule to the Act.

PROGRAMMES ON OFFER - 2016

Post-doctoral courses	Ph.D./Master's	Other Programmes
1. DM Cardiology	14. MD in Transfusion medicine	<p>Joint Programmes: (for details please see page no 34 to 36)</p> <p>(1) M Tech. (Clinical Engineering)</p> <p>(2) Ph.D. (Biomedical Devices and Technology)</p> <p>Affiliated Programmes with other Centres: (pl. refer page no. 37 to 41)</p> <p>A. National Institute of Epidemiology, Chennai:</p> <p>(1) Master of Public Health (Epidemiology and Health Systems)</p> <p>B. Christian Medical College, Vellore.</p> <p>(1) Master of Science Bioengineering</p> <p>(2) Ph.D.in Bioengineering</p> <p>(3) Master of Public Health (MPH)</p> <p>C. IITMK, Trivandrum</p> <p>(1) Ph.D (For Engineering Graduates)</p>
2. DM Neurology	15. Master of Public Health (MPH)	
3. DM Neuroimaging and interventional neuroradiology	16. M Phil (Biomedical Technology)	
4. DM Cardiothoracic & vascular anaesthesia	17.Ph.D	
5. DM Neuroanaesthesia	Diplomas	
6. MCh Cardiovascular & thoracic surgery	18. Diploma in Public Health 19. Diploma in Cardiovascular & Thoracic Nursing	
7. MCh Neurosurgery (after M.S)	20. Diploma in Neuro-Nursing 21. Diploma in Operation Theatre Technology	
8. MCh Neurosurgery—5-year course (after MBBS and 1 year Senior housesurgency/ Residency in General Surgery)	22. Diploma in Advanced Medical Imaging Technology	
	PG Diplomas	
9. Post-doctoral certificate course in Cardiothoracic and vascular anaesthesia	23. Cardiac Laboratory Technology 24. Neuro-Technology 25. Medical Records Science	
10. Post-doctoral certificate course in Neuroanaesthesia	26. Clinical Perfusion 27. Blood Banking Technology	
11. Post-doctoral certificate course in Cardiovascular imaging and vascular interventional radiology	Advanced Certificate	
12. Post-doctoral certificate course in Diagnostic neuroradiology	28. Advanced Certificate Programmes in Physiotherapy	
13. Post-doctoral fellowship (Post DM/MCh./DNB)		

COURSES OFFERED

1. POST-DOCTORAL COURSES

Currently, the Institute offers the following Post-doctoral courses:

DM— Cardiology, Neurology, Neuroimaging and interventional neuroradiology, Cardiothoracic & vascular anaesthesia, Neuroanaesthesia.

MCh—Cardiovascular and thoracic surgery, Neurosurgery

Post-doctoral Certificate Course—Cardiothoracic and vascular anaesthesia, Neuroanaesthesia, Cardiovascular imaging and vascular interventional radiology, Diagnostic neuroradiology.

Post-doctoral (Post DM/MCh./DNB) fellowship

MINIMUM EDUCATIONAL QUALIFICATIONS FOR ADMISSION

A. DM COURSES

DM Cardiology and DM Neurology

MD in General Medicine or Paediatrics from an Indian university recognized by Medical Council of India (MCI) or Diplomate of the National Board (DNB) in General Medicine/Paediatrics or any equivalent degree recognized by MCI.

Candidates with MD in Psychiatry from an Indian university recognized by MCI or DNB in Psychiatry with a minimum of six months residency posting in General Medicine during the said course, can apply for DM Neurology.

DM Neuroimaging & Interventional Neuroradiology:

MD in Radiodiagnosis from an Indian university recognized by MCI or Diplomate of the National Board (DNB) in Radiology/Radiodiagnosis or any equivalent degree recognized by MCI.

DM Cardiothoracic and Vascular Anaesthesia

MD in Anaesthesia or equivalent from an Indian university recognized by MCI or Diplomate of the National Board (DNB) in Anaesthesia or any equivalent degree recognized by MCI.

DM Neuroanaesthesia

MD in Anaesthesia or equivalent from an Indian university recognized by MCI or Diplomate of the National Board (DNB) in Anaesthesia or any equivalent degree

recognized by MCI.

B. MCh Cardiovascular and thoracic surgery, Neurosurgery.

MS in General Surgery from an Indian university recognized by MCI or Diplomate of the National Board in General Surgery or any equivalent degree recognized by MCI for this purpose from time to time.

C. MCh Neurosurgery (5-year course)

MBBS from an Indian university recognized by MCI and one-year post-MBBS residency/Senior house surgery in General surgery from a university/PG Institute/Teaching Hospital recognized by the MCI for General Surgery post graduate training.

D. Post-doctoral Certificate Courses: Cardiothoracic and vascular anaesthesia, Neuroanaesthesia, Cardiovascular imaging and vascular interventional radiology, Diagnostic neuroradiology.

MD/MS Degree in Anaesthesia/Radiology/General Surgery, from an Indian university recognized by MCI or DNB in Anaesthesia/Radiology/General Surgery or any equivalent degree recognized by MCI.

UPPER AGE LIMIT

35 years (as on **1st January 2016**), relaxable by 5 years for qualified Ex-service personnel with a service of not less than 5 years, SC/ST and sponsored candidates.

METHOD OF SELECTION (Total 100 marks)

1. 10 marks for MBBS.
2. 15 marks for MD/MS/DNB
3. 30 marks for Theory (Written) Entrance Examination
4. 30 marks for Departmental Clinical/Practical and Viva Voce
5. 15 marks for the Final Interview

Note:

- a. For calculating the marks for eligibility for admission to these courses, a deduction of one mark shall be made for having failed once in any of the university examinations. Two more marks will be deducted for the second failure in any of the university examinations. Candidates with more than two failures will not be called for the entrance examination.
- b. All candidates called for assessment should appear for a theory examination of

90 minutes duration, carrying 100 multiple choice questions, half of which will be from the Post doctoral specialty applied for and the other half from the qualifying post-graduate speciality . **OMR will be used for evaluation of answer sheets.** Theory examination will be based on the core post-graduate speciality and post-doctoral specialty applied for.

- c. The minimum pass marks in Theory Examination will be 50%. Candidates scoring less than the minimum prescribed will not be considered.
- d. Out of the candidates who have qualified in the Theory Examination, a merit list will be drawn up based on the marks obtained in the Theory Examination. From the said merit list, candidates will be selected in the order of merit for further evaluation - clinical, practical and viva voce in the respective departments. The ratio of candidates selected for these will be approximately three candidates for each available vacancy.
- e. The candidates for the final interview will be selected in the order of merit based on aggregate marks scored for academic performance including theory and departmental clinical/practical and viva-voce (aggregate of 1,2,3,4 under method of selection :marks). The proportion of candidates called for the final interview will be two per available seat in each discipline. However three candidates may be shortlisted for the final interview in a programme with one seat only.
- f. Candidates will be notified of their provisional selection immediately after the Entrance Examination. The final announcement will carry the names of selected candidates (in serial order), wait-listed candidates (in rank order), and those eligible for Institute scholarship. The number of wait-listed candidates will not exceed that of the selected. Selection will be purely on merit, based on the methods of assessment indicated.
- g. Candidates can apply for Cardiothoracic and Vascular Anaesthesia specialty or for Neuroanaesthesia specialty. Examinations are different for the two specialties. The examination is common for both DM and PDCC courses in the same specialty.
 - There will be a common application form for both DM and PDCC programmes. A candidate should submit only one application form.
 - The candidate has 3 options to apply for the programs:
 1. To apply only for DM programme (Group I).
 2. To apply for both DM and PDCC programme with the aim of joining either of them whichever would be available to him/her based upon ranking in the final examination (Group II).
 3. To apply only for PDCC (Group III).
 - Theory examination will be common both for DM and PDCC.

- Only those candidates who successfully pass the theory examination will be considered for departmental examination. Candidates equal to 3 times the total number of seats (DM plus PDCC) will be selected for departmental examination. However, maximum number of candidates among them, who apply for group I (DM program only), will not exceed 3 times the number of DM seats.
 - Only those candidates who successfully pass the departmental examination will be considered for the final interview. At the end of the departmental examination, all candidates will be rank listed according to the score obtained. Candidates equal to twice the number of seats (DM plus PDCC) will be selected for final interview. However, maximum number of candidates among them, who are in group I (DM program only), will not exceed 2 times the number of DM seats.
 - Only those candidates who successfully pass the final interview will be considered for admission counseling. A merit list will be created after final interview & counseling.
 - The candidates for DM seats will be selected from group I and group II according to the merit order. Number of candidates equal to the number of DM seats will be kept in the waiting list for DM. However, those candidates from group II, who are included in DM waiting list, can also compete for PDCC seats. They may join the DM program depending upon their merit order if a DM seat falls vacant at a later date. A candidate who joins the DM course will not be permitted to change over to PDCC at a later date.
 - The candidates from Group II and Group III will compete for PDCC. Those who are not selected for PDCC, will be kept in the PDCC waiting list.
- h. The panel of candidates selected for DM/MCh. courses will be valid for a period of six months from 1st January of each year. Any vacancy occurring before 1st February will be filled from the waiting list. Any candidate from the waiting list admitted against a vacant seat who fails to join on or before January 31st will be admitted to the course only on 1st July of that year. All candidates shall, however, undergo the period of training prescribed for the course before being permitted to appear for the final examination.

Note: (1) One seat in DM Cardiology is normally reserved for candidates with MD in Paediatrics or its equivalent qualification. However, in the absence of suitable candidates, the seat will be filled from candidates with MD in General Medicine. So also, MD Paediatrics candidates may be admitted to general seats if found suitable. Students applying for DM Cardiology, from the Paediatric stream should select the course name as DM Cardiology (Paediatric stream). Candidates applying for DM Neurology from Paediatric stream should select the course name as DM Neurology (Paediatric stream).

- (2). One seat in MCh. Neurosurgery will be reserved for MBBS candidates with one year senior house surgery/residency. In the absence of suitable candidates, the seat will be filled from the candidates with MS/DNB in General Surgery.

E. Post Graduate Programme: MD Transfusion Medicine

MBBS or equivalent degree from a recognized university. They should have completed one year of compulsory internship from a medical college of repute. The candidate should have applied for and obtained registration with Medical Council of India or State Medical Council

F. POST-DOCTORAL FELLOWSHIP (PDF)

The Institute offers one-year Post-doctoral Fellowship (PDF) for those who have DM/MCh (3-year) or equivalent qualifications. The PDF provides an excellent opportunity to obtain advanced training in a sub-specialty area. The PDF programmes are organized by faculty trained in the concerned sub-specialty area. In addition to obtaining advanced clinical training, PDF provides opportunities to gain hands-on experience in advanced diagnostic and therapeutic techniques and high quality research. The applicant is encouraged to visit the website (www.sctimst.ac.in) and directly communicate with respective PDF Programme Supervisors listed below to gather more details about the programme and areas of future research during the fellowship period.

The following PDF positions are available for the academic year beginning January 2016.

(i) Department of Neurology

<i>Subspecialty</i>	<i>Programme Supervisor</i>
Electroencephalography (one seat)	Dr.Sanjeev V Thomas sanjeev@sctimst.ac.in
Epilepsy (one seat)	Dr.Sanjeev V Thomas sanjeev@sctimst.ac.in
Movement Disorder (one seat)	Dr.Asha Kishore asha@sctimst.ac.in
Neuromuscular Disorders (one seat)	Dr.M.D.Nair, mdnair@sctimst.ac.in

- Stroke** (one seat) Dr.P.N.Sylaja
sylajpn@sctimst.ac.in
- (ii) **Department of Cardiology**
- Adult Cardiology and Interventions** (one seat) Dr.Jaganmohan A Tharakan
jmt@sctimst.ac.in
- Cardiac Electrophysiology** (one seat) Dr.Jaganmohan A Tharakan
jmt@sctimst.ac.in
- Paediatric Cardiology** (one seat) Dr.Jaganmohan A Tharakan
jmt@sctimst.ac.in
- (iii) **Department of Neurosurgery**
- Cerebrovascular Surgery** (one seat) Dr.N.Suresh Nair
snair@sctimst.ac.in
- Skull Base Neurosurgery** (one seat) Dr.N.Suresh Nair
snair@sctimst.ac.in
- (iv) **Department of CVTS** (one seat)
- Adult Cardiac Surgery or Paediatric Cardiac Surgery** Dr.K.Jayakumar
jay@sctimst.ac.in

**Minimum Educational Qualification for Admission
(for Post-doctoral Fellowship) :**

DM/MCh (3 year) or equivalent qualification from MCI recognized institutions.
Registration with Central/State Medical Council.

Application to include bio-data and a 500 words write-up on the work/project proposed to be done. Institutional grants are available for selected research proposals. The candidates can contact the Programme Supervisor in advance to discuss the feasibility of the proposed programme.

Letter of Reference

Applicants for PDF courses are required to submit 2 reference letters from specialists working in the area of application, one of which should be from the last employer/teacher under whom the candidate worked. The reference letters must be sent in sealed envelopes along with the application

Upper Age Limit

45 years (as on 1st January 2016), relaxable by 5 years for qualified Ex-service personnel with a service of not less than 5 years, SC/ST and sponsored candidates.

Method of selection:

Short-listing of the application based on the merit of a 500 words short research project proposal and letters of references. Short listed candidates will be called for an interview for final selection.

SPONSORED CANDIDATES (for all programmes)

Candidates will be considered as “sponsored” only when they are financially supported by the Government, governmental agencies or universities.

Sponsored candidates will have to apply through proper channel and submit a “No Objection Certificate” from their employer along with their application forms. Government Orders regarding sponsorship with financial support must be submitted at the time of admission. The decision of the Institute regarding the eligibility of sponsorship shall be final.

All eligible candidates seeking admission (including sponsored) will have to appear in the entrance examination and go through the process of selection as envisaged for all. Candidates applying under the sponsored category will be considered as “Sponsored” only if they figure in the merit list which includes wait list candidates also. If sponsored candidate figure in the merit list he/she will be given admission under the sponsored category. No other type of preference will be given to sponsored candidates.

Sponsored candidates are eligible for 7 days Leave-on-duty for attending national conferences/workshop/seminar. They are not eligible for accommodation, HRA, medical reimbursement, travel grant, TA/DA and registration fee for conferences.

The number of **sponsored** candidates in any course will not exceed 50% of the number of seats in general quota.

Foreign Nationals (for all programmes)

The Institute accepts foreign nationals for various courses but there is no reservation of seats for foreign nationals. Selection will be on the basis of their performance in the entrance examination. The candidates need to be sponsored and supported by Government or inter-governmental agencies. Foreign nationals are required to apply through the Indian Council of Cultural Relations & The Ministry of External Affairs, Government of India, New Delhi.

SUMMARY OF THE POST - DOCTORAL COURSES AND QUALIFICATIONS

<i>Course</i>	<i>No. of seats</i>	<i>Duration (Year)</i>	<i>Qualifications</i>
DM Cardiology	6	3	MD/DNB in Gen. Medicine/Paediatrics
DM Neurology	6	3	MD/DNB in Gen. Medicine/Paediatrics/Psychiatry*
DM Neuroimaging & interventional neuroradiology	2	3	MD/DNB Radiology/Radiodiagnosis
DM Cardiothoracic & vascular anaesthesia	4	3	MD/DNB in Anaesthesia
DM Neuroanaesthesia	3	3	MD/DNB in Anaesthesia
MCh Cardiovascular & thoracic surgery	4	3	MS/DNB in Gen. Surgery
MCh Neurosurgery	4	3/5	MS/DNB in Gen. Surgery (MBBS + 1 year experience in Gen. Surgery)
Post-doctoral Fellowship (Post DM/MCh.):			DM/MCh (3 year) or equivalent qualifications
Cardiovascular & thoracic surgery	1	1	
Neurology	5	1	
Cardiology	3	1	
Neurosurgery	2	1	
PDCC: Cardiothoracic & vascular anaesthesia	2	1	MD/DNB in Anaesthesia
PDCC: Neuroanaesthesia	2	1	MD/DNB in Anaesthesia
PDCC: Cardiovascular imaging and vascular interventional radiology	2	1	MD/DNB in Diagnostic Radiology
PDCC: Diagnostic neuroradiology	1		
M.D in Transfusion Medicine	1	3	MBBS

*with 6 months Residency in General Medicine.

Salary/stipend (per month)
(Except for sponsored candidates)

<i>Course</i>	<i>Duration</i>	<i>Scale of pay/Stipend</i>
DM & MCh	3 year	₹ 18,750/- + 6600/- GP *
5 year MCh (Neurosurgery) / MD (Transfusion Medicine)	5/3 year	₹ 15,600/- + 5400/- GP *
Post-doctoral Certificate Courses	1 year	₹ 18,750/- + 6600/- GP *
Post-doctoral Fellowship	1 year	₹ 18,750/- + 6600/- GP *
M.Phil/Advanced Certificate Programmes in Physiotherapy	1 year	₹ 5,000/-
Specialty Courses in Nursing	1 st year	₹ 7,550/- #
	2 nd year	₹ 8,800/- #
PG Diploma/Diploma Courses (Technology)	1 st Year	₹ 5,660/- #
	2 nd Year	₹ 6,920/- #

* With applicable HRA, DA & DA on TA as per Institute Rules

Applicable cost of living index as per Institute Rules.

FEES STRUCTURE

Particulars	<u>Post-doctoral Courses & PG (DM/MCh/PDCC/PDF & MD)</u>	Ph.D.	MPH	M.Phil	DPH	PG Diploma / Diploma & Advanced Certificates Programs
Application fee ^{\$}	₹ 1,500/-	₹ 1,000/-	₹ 1,000/-	₹ 500/-	₹ 1,000/-	₹ 300/-
Admission fee	₹ 2,000/-	₹ 1,000 /-	₹ 1,000	₹1,000/-	₹ 1,000	₹ 500/-
Tuition Fee	₹ 15,000/- (per year)	₹ 5,000/- (per year)	₹ 1,10,000/- (for 2 years- for Non-sponsored independent students) ₹ 2,00,000/- (for sponsored students) US\$ 6,000/- (for overseas students)	--	--	₹ 1,000/- per year
Course Fee	--	--	--	₹ 5,000/-	₹ 1 lakh	--
Caution Deposit	₹ 5,000/-	₹ 2,000/-	₹ 2,000/-	₹ 1,000/-	₹ 1,000/-	₹ 1,000/-
Examination Fee: Part—I	₹ 2,000/- [£]	..	₹ 1,000/-	₹ 1,000/-	..	₹ 250/-
Part—II	₹ 10,000/- [£]					
Comprehensive Examn.		₹ 2,000/-				
Thesis Evaluation Fee		₹ 5,000/-				
Identity Card	₹ 220/-	₹ 220/-	₹ 220/-	₹ 220/-	₹ 220/-	₹ 220/-
Library	₹ 1,000/-	₹ 500/-	₹ 500/-	₹ 500/-	₹ 500/-	₹ 200/-
Student Welfare Fund	₹ 1,000/-	₹ 500/-	₹ 500/-	₹ 500/-	₹ 500/-	₹ 200/-
Certificates	₹ 1,000/-	₹ 1,000/-	₹ 1,000/-	₹ 500/-	₹ 500/-	₹ 200/-
Hostel Fee			₹ 20,000/- per year			

[£] Applicable for DM/MCh only.

^{\$} for SC/ST candidates: for Post-doctoral Courses -₹ 1200/-

Ph.D/MPH/.DPH ₹ 800/-

M.Phil ₹ 400/-

PG Diploma/Diploma /Advanced certificate courses ₹ 240/-

FEE ONCE PAID WILL NOT BE REFUNDED.

2. SPECIALTY NURSING COURSES

The Institute offers two Specialty Diploma programmes in Nursing to meet the growing demand for competent and trained nurses in super specialties. These programmes are:

- (i) **Diploma in Cardiovascular & Thoracic Nursing**
- (ii) **Diploma in Neuro Nursing.**

The programmes are designed to offer advanced education and clinical experience to registered nurses to prepare them as skilled bedside nurses in respective specialties including outpatients, inpatient and intensive care areas and equip them to assume leadership roles in these areas as skilled clinical nursing personnel.

MINIMUM EDUCATIONAL QUALIFICATIONS FOR ADMISSION

- a. GNM or B.Sc. Nursing.
- b. For GNM candidates, one year experience as bedside nurse after passing GNM, as on 31st December, 2015
- c. Professionally registered as a nurse by any recognized State Nursing Council in India or by Nursing Boards approved by the Indian Nursing Council.

Upper Age Limit

35 years (as on 1st January 2016), relaxable by 5 years for qualified Ex-service personnel with a service of not less than 5 years, SC/ST and sponsored candidates. 3 years for OBC candidates.

Summary of Specialty Nursing Courses

<i>Course</i>	<i>No. of seats</i>	<i>Duration</i>
Diploma in Cardiovascular & Thoracic Nursing	10	2 years
Diploma in Neuro Nursing	10	2 years

Method of Selection

Selection will be strictly on merit on the basis of percentage of marks obtained in the Common Entrance Examination for Cardiovascular & Thoracic Nursing and Neuro Nursing held by the Institute. The candidates may indicate their preferred choice of the specialty in the application form. The common Entrance Examination will be held in the Institute. Based on seat availability, preference and merit obtained in the Entrance Examination, selection list will be finalized.

Sponsored candidates will also go through the selection process but a separate list of finally selected candidates from those who qualify in the Entrance Examination

will be put up.

The minimum pass marks in the objective-type written examination (90 minutes duration: 100 questions) will be 50% for all. Candidates who have qualified in the written examination will be short-listed for practical and interview, the very next day.

Note: See “Special Information” (Page 18)

3. PG DIPLOMA/ DIPLOMA PROGRAMMES

PG Diploma in Cardiac Laboratory Technology

The rapid advances in science and technology have transformed cardiac medical practice from purely clinical to laboratory-oriented cardiology. This has resulted in newer investigative techniques and procedures both for diagnostic and therapeutic purposes. There is a need for training people as more hospitals strive to update the practice of cardiology. The training programme will cater to the needs of those technical personnel who will be in increasing demand in the years to come. The trainees will be attached to the Departments of Cardiology and Clinical Engineering.

PG Diploma in Neuro Technology

The advent of sophisticated electronic equipment and computers has made neurophysiology a fast developing clinical specialty. Simultaneously, the need for well-trained technicians to maintain and use these machines has become a necessity. A highly developed epilepsy programme offers hand on experience in video-EEG monitoring, intraoperative electro-cortocography and stimulation and brain mapping. The trainees will be attached to the Departments of Neurology and Clinical Engineering.

PG Diploma in Medical Records Science

Health care records are maintained to pursue the clinical, academic, administrative and legal requirements of the hospital. Medical record is a confidential document and it is a product of privileged communication between patient and health care providers.

This academic programme is designed to train candidates potentially to organize and maintain a Manual/Electronic Medical Records Department. The trainees will be attached to the Medical Records Department and sections of Hospital Administration.

PG Diploma in Clinical Perfusion

This course is designed to train the candidate to become a Perfusionist who is a blood circulation specialist with a unique role in the field of cardiac surgery. Cardiac and pulmonary circulation are temporarily bypassed to facilitate a bloodless field,

whereby the surgeon can perform the necessary repair inside the heart.

A Perfusionist manages the Heart Lung Machine equipment through which venous blood from the patient is diverted, oxygenated and infused back to the patient. Mechanical action of heart is temporarily stopped. The Perfusionist is also responsible for hypothermia, total circulatory arrest etc. The patient is warmed back and weaned off the Heart Lung Machine. Student Perfusionist is required to work in the operation theatre and has to follow aseptic techniques. He/She will be given clinical and theoretical training in the set up and operation of Heart Lung Machine, perfusion management, support devices such as Intra Aortic Balloon Pump etc. The trainees will be attached to the Departments of CVTS.

PG Diploma in Blood Banking Technology

Rapid advances in technology have revolutionized blood transfusion services and enhanced our knowledge in Transfusion Medicine. This has necessitated thorough selection of donors for donor and recipient safety during blood donation, extensive serological and immunohaematological techniques, infectious disease screening, processing of blood into components for optimal usage and proper storage of blood and components. During the training period students will have ample 'hands on experience' under expert guidance and supervision. There is growing need in the State for training in this specialty owing to acute shortage of trained personnel. During the training programme, the student will have enough opportunity to be familiar with state-of-the-art equipment and access to computer and library facilities. Training is designed to equip students to meet increased demand for qualified personnel in blood banks. The trainees will be attached to the Department of Transfusion Medicine and Section of Hospital Administration.

Diploma in Operation Theatre Technology

A variety of electrical and electronic equipments are in use in modern operation theatres for monitoring anaesthesia and for surgical purposes. The safety of patients depends largely on the reliable and smooth functioning of these equipments. The course is designed to train candidates in the operation and maintenance of theatre equipment and hospital pipeline systems. The trainees will be attached to the Department of Anaesthesia and Clinical Engineering.

Diploma in Advanced Medical Imaging Technology

Medical Imaging Techniques have advanced tremendously in the last decade and have found widespread use in diagnostic applications. However, the paucity of well-qualified technical personnel has always been a problem in exploiting the full potential of these techniques. The Department of Imaging Sciences & Interventional Radiology at this Institute is one of the best-equipped departments of its kind in the country.

Apart from conventional radiological facilities for outpatient radiography, tomography, myelography and so on, CT Scan and Digital Subtraction Angiography (DSA) units are functioning for the last several years. A state-of-the-art Magnetic Resonance Imaging unit and a PACS system are also functional. The trainees will be attached to the Departments of Imaging Sciences and Interventional Radiology and Clinical Engineering.

Advanced Certificate Programmes in Physiotherapy

With the health sector fast expanding, graduates in Physiotherapy with quality training are in great need. The SCTIMST holds unmatched resources in neurological and cardiovascular sciences. This includes our highly trained and competent human resources, equipment and technology, and commitment to high quality professional work. The Institute now offers two academic programmes leading to Advanced Certificates through its Department of Physical Medicine and Rehabilitation (PMR). These one year programmes are highly skill-based and give the opportunity to candidates to get competence in managing different neurologic and cardiovascular diseases, ward activities, in research and training in the use of newer equipment and technologies of physiotherapy.

The following one year programmes are offered

- Advanced Certificate Programme in Physiotherapy in Neurological Sciences
- Advanced Certificate Programme in Physiotherapy in Cardiovascular Sciences

MINIMUM EDUCATIONAL QUALIFICATIONS FOR ADMISSION

PG Diploma in Cardiac Laboratory Technology

B.Sc. degree of any recognized university in India with Physics as major or ancillary subject with an aggregate marks of at least 60%.

PG Diploma in Neuro Technology

B.Sc. Physics, Chemistry, Biological Sciences, Bio-Technology or Computer Science with aggregate marks of atleast 60%.

PG Diploma in Medical Records Science

B.Sc. degree of any recognized university in India with an aggregate marks of at least 60%.

PG Diploma in Clinical Perfusion

B.Sc. degree in Zoology as main or subsidiary subject of any recognized university in India. An aggregate of at least 60% marks

PG Diploma in Blood Banking Technology

B.Sc. in any branch of Biological Science from a recognized university with an aggregate of at least 60% marks in these subjects.

Diploma in Operation Theatre Technology

Diploma in Electronics/Biomedical Engineering/Instrumentation from a recognized institution. Good academic record.

Diploma in Advanced Medical Imaging Technology

Certificate in Radiographic Assistance (CRA)/Diploma in Radiological Technology (DRT) 2 year course or equivalent qualification from a recognized institution with an aggregate marks of at least 60%.

Advanced Certificate Programmes in Physiotherapy

BPT (A regular in-campus four-year bachelor's degree and internship in Physiotherapy from a recognized university).

Upper Age Limit

25 years (as on 1st January 2016) relaxable by 5 years for SC/ST and sponsored candidates, 3 years for OBC candidates. In addition, candidates will be admitted if sponsored by the government, governmental agencies or universities. Candidates belonging to Scheduled Caste/Scheduled Tribe need secure only 50% in the qualifying examination.

Method of Selection

Selection will be strictly on merit on the basis of percentage of marks obtained in the entrance examination (written and viva-voce held at the Institute). Sponsored candidates will also go through the procedure for selection but a separate list of finally selected candidates from those who qualify in the entrance examination will be put up.

Minimum pass marks in the objective-type written examination of 90 minutes duration (100 questions) will be 50% for all. Candidates who have qualified in the

written examination will be short-listed for interview.

Note: See “ *Special Information*”

In addition, candidates will be admitted if sponsored by the government, governmental agencies or universities.

Candidates belonging to Scheduled Caste/Scheduled Tribe need secure only 50% in the qualifying examinations.

SPECIAL INFORMATION

Hostel Accommodation

Candidates selected will be provided accommodation as per rules and availability.

Course Content

The training is strictly full-time and continuous. The candidates at the time of admission will be provided with a handbook covering the syllabus, training programme and the examination scheme. They should acquaint themselves with the syllabus prescribed for the course to which they are admitted. They should strictly adhere to the rules and regulations of the Institute.

Summary of PG Diploma/ Diploma Course

<i>Course Available</i>	<i>Seats</i>	<i>Duration (Years)</i>	<i>Qualification</i>
Cardiac Laboratory Technology (PG Diploma)	3	2	B.Sc.with Physics as major or ancillary 60% aggregate
Operation Theatre Technology (Diploma)	2	2	Diploma in Electronics/ Biomedical Engineering /Instrumentation
Neuro Technology (PG Diploma)	4	2	B.Sc. Physics, Chemistry, Biological Sciences, Bio Technology or Computer Science 60% aggregate
Advanced Medical Imaging Technology (Diploma)	3	2	CRA/DRT 2 year course or equivalent 60% aggregate
Medical Records Science (PG Diploma)	2	2	B.Sc.with 60% aggregate
Clinical Perfusion (PG Diploma)	2	2	B.Sc.Zoology as main or subsidiary, 60% Aggregate
Blood Banking Technology (PG Diploma)	2	2	B.Sc. in any branch of Biological Science, 60% aggregate
Diploma in Public Health	10	1	Doctors with three years of work experience after MBBS degree and sponsored by governmental agencies.

Advanced Certificate Programmes in Physiotherapy

<i>Course Available</i>	<i>Seats</i>	<i>Duration (Years)</i>	<i>Qualification</i>
Advanced Certificate Programme in Physiotherapy Neurological Sciences	2	1	Four-year Bachelor's degree in Physiotherapy from a recognized university.
Advanced Certificate Programme in Physiotherapy Cardiovascular Sciences	2	1	Four-year Bachelor's degree in Physiotherapy from a recognized university.

Contract Service

All students and Senior Residents selected for various programmes are required to execute a bond of service for a duration depending upon the length of the course. Admission will be denied to candidates who fail to join or submit the contract bond by the date stipulated in the letter of selection. **Private practice in any form during the pendency of the course is strictly prohibited.**

Duties and Responsibilities

Duties and responsibilities of students and Senior Residents shall be fixed by the Institute from time to time and will include such clinical work as may be essential for patient care and professional training.

Medical Fitness

The selection will be provisional until the candidate is declared medically fit by a Medical Board appointed by the Institute. The candidate should declare all problems connected with aspects of his/her health and should certify that he/she is fit to undergo the rigorous programme that he/she is joining. The opinion of the Medical Board shall be final.

Uniform for Specialty Nursing programme

Female :	White Churidhar set		white, half sleeve overcoat for all
Male :	Black pants, white shirt		

Commencement of Academic Session

The session commences on **1st January, 2016**. Selected candidates will report on this date with all necessary original documents, the verification of which is mandatory for confirmation of admission.

Senior Residents and students will be assessed at the end of six months after admission for their academic ability, desire for training, acquisition of competence, commitment to patient care, interpersonal relationship and so on. Those with low scores will be given a chance to improve in the next three months and, if found unsatisfactory, the candidate's registration in SCTIMST will be terminated.

Evaluation

Internal assessment for Diploma in Public Health; internal assessment and external examination towards the end of the first year for Specialty Nursing and towards the end of second year for all other Diploma Programmes.

Attendance on the last working day of the course, normally 31st December, will be compulsory, except in extraordinary situations and for MPH course.

APPLICATION PROCEDURE

Application form and application Fee done through ONLINE MODE ONLY.

For more details please visit our website:

www.sctimst.ac.in

All bank charges to be borne by the applicant.

Application Fee

Post-doctoral courses including PDF : ₹ 1500/- (₹ 1200/- for SC/ST candidates)
Ph.D/MPH/DPH/MD : ₹ 1000/- (₹.800/- for SC/ST candidates)
M.Phil : ₹. 500/- (₹.400/- for SC/ST candidates)
Diploma/PG Diploma/Advanced certificate courses :₹ 300/- (₹ 240/- for SC/ST candidates)

Hard copy of the duly signed ONLINE generated application form along with prescribed Online fee payment receipt with copies of relevant documents to be sent to “The Registrar, Sree Chitra Tirunal Institute For Medical Sciences and Technology, Thiruvananthapuram-695 011” to reach before the last date.

Candidates eligible for the entrance examination can access their call letter from our website only.

INSTRUCTIONS

1. Fill up the Application Form on-line carefully.
2. If you are an employee of a State or Central Government or Public Sector Undertaking, route your application through your employer. You may, however, send the advance copy of your application. The application through proper channel should reach this office within seven days of the closing date for the receipt of application. The “Advance Copy” should be complete in all respects and should be accompanied by all the documents mentioned above and must reach this office before the closing date.
3. Send a hard copy of application along with the copies of necessary documents well in time before the closing date.
4. Applications received after the closing date are liable to be rejected.
5. Attach all documents to your application form with a strong thread.

6. No intimation will be sent to candidates not called for Entrance Examination or not selected and no correspondence on this subject will be entertained.

7. The rules are subject to change in accordance with decisions of the Institute taken from time to time.

Check list of documents to be submitted along with the application form:

1. Copy of document to prove age
2. Caste certificate for SC/ST/OBC (Non-creamy Layer) issued by revenue authorities not below the rank of a Tahsildar (Valid as per Govt of India norms).
3. "NO OBJECTION CERTIFICATE" in case of employed
4. Copies of certificates to prove academic qualifications and achievements
5. Copies of attempt certificates of MBB,MD/MS/DNB Examinations issued by University/National Board of Examinations, as applicable.
6. Copy of Registration Certificate: Medical (MBBS,MD.MS/DNB) Nursing
7. Online payment receipt
8. Candidate should furnish a certificate from the respective colleges to the effect that the Department/Course is recognized by MCI. (**applicable only for post doctoral courses**)

Note: Academic certificates should be submitted on or before **07-10-2015**, otherwise candidates will not be called for Entrance Examination. In case of PDF programmes, those who have not completed DM & MCh courses at the time of interview may produce the original certificates at the time of **joining**.

Last date for the receipt of completed applications: **07th October, 2015.**

Apply to and contact for further details:

THE REGISTRAR
Sree Chitra Tirunal Institute for Medical Sciences and Technology
Trivandrum-695011, Kerala, India.
Telephone: 91-471-2524150, 2524269
Fax: 91-471-2550728
e-mail: reg@sctimst.ac.in
Website: <http://www.sctimst.ac.in>

Ph.D. PROGRAMME

Promoting interdisciplinary research, the Institute offers Ph.D. programme in the following major research areas.

Biological Sciences:

Biochemistry, Cell Biology, Cellular and Molecular Cardiology, Neuro Biology, Microbiology, Pathology, Physiology, Toxicology, Thrombosis, Implant Biology.

Bioengineering and Biomaterial Science and Technology:

Artificial Organs, Bioceramics, Dental Materials, Material Tissue Interactions, Polymer Sciences and Technology, Nanomaterials, Drug delivery & sensing, Tissue Engineering and Regenerative Technologies.

Health Science Studies (Full Time & Part Time)

Epidemiology, Gender Issues in Health, Health Policy, Health Systems.

Medical Sciences:

Neuro sciences , Cardiac Sciences, Imaging Sciences and Interventional Radiology.

Admission:

The selection for Ph.D. will be carried out twice in a calendar year, in November and June. The list of availability of seats and availability of research guides will be notified in the Institute website www.sctimst.ac.in in September and May every year for November and June selections.

There is part time registration for the Ph.D programme only in Health Science Studies. Eligibility criteria for part time students are given in the “ **GUIDELINES FOR MBBS DEGREE HOLDERS APPLY FOR PhD PROGRAMME**” available in the website. Eligibility criteria are the same as for full time Ph.D registration. Eligibility criteria for the part time students are given in the website. **There is no External or part time Registration for the Ph.D programme in any other subject.**

MINIMUM EDUCATIONAL QUALIFICATIONS FOR ADMISSION:

Biological Sciences

MSc. Life Sciences (excluding Botany and Bioinformatics), Veterinary Sciences, MSc. Physiology, Biochemistry, Biotechnology, Zoology or any other branch of life

sciences.

Bioengineering and Biomaterial Science and Technology:

MSc. Physics, Chemistry, Polymer Chemistry, Polymer Science, Veterinary Sciences, Material Science, MTech. Polymer Engineering Technology, MTech. Material Science/BME/Instrumentation/Biotechnology.

Health Science Studies:

Post graduates in Public Health, Modern Medicine, Dentistry, Veterinary Sciences, Nursing Sciences, Social Sciences, Statistics/Biostatistics, Demography/Population Sciences.

Minimum marks required to apply:

Consistently good academic record with 60% (GPA 6.5/10) marks in undergraduate and post graduate examinations.

Medical Sciences:

MBBS degree from any university recognized by Medical Council of India (MCI) Candidates should have completed satisfactory one year compulsory rotating internship or its equivalent as recognized by MCI after passing the final MBBS examination. Candidates should have full registration with a State Medical Council. Candidates with Post Graduate Medical qualifications can also apply but no special reservation or preference will be given. 55% of marks in MBBS Degree and need to be holders of National Level fellowship from UGC/CSIR/ICMR. Candidates should not have more than 2 attempts in MBBS program. Available areas in Medical Sciences: (a) Neuro sciences (b) Cardiac Sciences (c) Imaging Sciences and Interventional Radiology.

Functional neuroimaging, magnetic resonance imaging, Medical image processing: (For Engineering Graduates) with IIITMK

Graduation in engineering with postgraduation (Qualifying Examination) in M.Tech/ME/M.Sc.(Engg)/ MS in either Biomedical Engineering / Electronics and Communication / Electrical & Electronics / Computer Science / Information Technology with a minimum of 60% (6.5/10 CGPA) in the qualifying examination

There is no age limit for admission to the Ph.D Programme.

Method of selection:

The selection of research scholars will be based on the performance in written test and interview. Individual JRF Fellowship holders (UGC, CSIR, ICMR, INSPIRE, DBT) are exempted from Written Test, and their selection will be on the basis of

Interview only. Individual KSCSTE JRF holders have to qualify in the written test and interview of this Institute.

Candidates awarded Senior Research Fellowships (SRF) from other sources (KSCSTE, UGC, CSIR, ICMR etc.) have to qualify in the written test and interview conducted by the Institute.

Candidates must provide a write-up describing the Research Proposal (300 to 400 words) and a Statement of Purpose for undertaking a research career (100 to 150 words).

The Institute reserves its right to short list candidates based on the number of seats available every year, academic merit and scientific records of the applicants, letters of reference and **availability of research guides every year etc.**

SCTIMST Ph.D. Fellowship:

Six Institute Fellowships at the DST approved rates are available each year for a maximum period of five years, of which **two fellowship are** reserved for Health Science Studies.

Ph.D. Manual:

For all details, please refer the Ph.D. manual available in our website <http://www.sctimst.ac.in> or contact:

THE DEPUTY REGISTRAR
Division of Academic Affairs
SREE CHITRA TIRUNAL INSTITUTE FOR MEDICAL SCIENCES AND TECHNOLOGY
Trivandrum - 695011, Kerala, India.
Telephone: 91-471- 2524140,2524269
Fax: 91-471-2446433 E-mail: jsingh@sctimst.ac.in
Website: <http://www.sctimst.ac.in>

ACHUTHA MENON CENTRE FOR HEALTH SCIENCE STUDIES (AMCHSS)

AMCHSS, the Public Health and Health Sciences Wing of Sree Chitra Tirunal Institute for Medical Sciences and Technology is devoted to Public Health, and Social Sciences in relation to health care and development. It started the MPH Programme in January 1997, Ph.D. Programme in 2003 and DPH in 2005. Central to its mission are: 1) Educating students to assume leadership roles in public health policy and practice; 2) Advancing knowledge of the social, biological, economic and behavioral dimensions of health and to perform costing, cost-efficiency, and epidemiological studies and policy analysis; and 3) To provide technical expertise and consultancy service on public health issues to the public, NGO and the private sector. The Ministry of Health and Family Welfare, Govt. of India has accepted this Centre as a “**Centre of Excellence for Public Health Training**”.

1. MASTER OF PUBLIC HEALTH (MPH)

The objectives of the Master of Public Health course are:

1. To provide a broad understanding of the core areas of public health and related disciplines
2. To develop through a field-intense practical training programme the individual ability to identify a health problem and conceptualize the related research questions, design a community-based study to investigate the problem, collect relevant data from the field, analyze the data and present the findings in a policy or scientific context.
3. To help acquire knowledge and skills to analyze health situations and help devise appropriate policies and programmes in a cost-effective manner.
4. To inculcate interdisciplinary approach to problem solving skills in public health.

Duration

The programme is a 24-month full time residential course commencing on the 1st of January every year. This has been designed to build understanding, knowledge, skills and attitude for better public health practice and research.

Minimum Educational Qualifications for Admission

Medical graduates (MBBS), Dental graduates (BDS), and graduates of four-year degree programs in Veterinary/Nursing sciences, Bachelor of Physiotherapy, Bachelor of Occupational Therapy, Bachelor of Pharmacy, or students with a postgraduate degree in Statistics/Biostatistics, Demography, Population Studies, Nutrition, Sociology, Economics, Psychology, Anthropology, Social Work, Management or Law." Work experience in a health-related field is desirable.

Age: 40 years as on 1st January 2016. Age relaxation can be given in exceptional cases.

Method of selection

Indian students

Prospective candidates will be evaluated on the basis of educational qualifications, professional experience, relevant to the field of public health, written test and interview. Overseas candidates have to provide certification for proficiency in English.

Overseas students

Selection will be based on educational qualifications, professional experience, assessments made by the sponsoring organizations and a telephonic interview. Applicants are required to submit two reference letters in sealed envelopes from experts working in the field of Public Health along with the application form.

Fee Structure (pl. see fees structure): The course fee includes registration fee, examination fee, tuition fee, library fee and charges for computer lab.

The course fee does not include the cost of books, stationery, field trips, dissertation and so on.

Institute scholarship for MPH Students

A total of 5 scholarships will be given every year for the top five students. For the top most three will be given total fee waiver and a monthly stipend of ₹ 5000/-, and the next two students will be given total fee waiver only.

Accommodation:

Only limited numbers of hostel rooms are available for the course. Preference shall be given to candidates from outside the state. Many students might need to find own accommodation.

2. DIPLOMA IN PUBLIC HEALTH (DPH)

This is envisaged to provide capacity building in public health for doctors working with various state or central government departments or agencies. MBBS doctors working with government agencies having atleast three years of work experience are considered for the course.

Duration : 1 Year (January to December 2016)

Minimum Experience required: 3 years in Government service after MBBS

Age Limit: Up to 50 years as on 01-01-2016

Maximum Number of seats: 10

Selection: If there are more than 10 applications, selection will be based on the performance in written test and interview to be conducted at this Institute.

Medium of Instruction: English

Fee Structure: (pl. see fees structure). The course fee include registration fee, examination fee, tuition fee, charges for computer lab and does not include the cost of books, stationery, field trips, project work and so on.

Computer Lab: Students have access to a state-of-the-art computer laboratory equipped with e-mail and internet facilities.

Equipments for Class Presentations: Video Projector (LCD), Over Head Projector and Slide Projector are available for class presentations.

Library: There is a good professional research and reference library with a substantial collection of books and journals on Public Health.

Accommodation: Candidates eligible for admission may find their own accommodation.

For further enquiries, please contact:

THE DEPUTY REGISTRAR
Division of Academic Affairs
SREE CHITRA TIRUNAL INSTITUTE FOR MEDICAL SCIENCES AND TECHNOLOGY
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BIOMEDICAL TECHNOLOGY WING (BMT WING)
SREE CHITRA TIRUNAL INSTITUTE FOR MEDICAL SCIENCES AND
TECHNOLOGY (SCTIMST)

Objectives:

Promotion of Biomedical Engineering and Technology and development of post-graduate training programmes of the highest quality in this area.

The present vision of the wing is to:

- Develop technologies which are competitive in the international market
- Carry out research in frontier areas of health care technology
- Provide testing support conforming to national/international standards

A team of scientists, engineers and technical staff work here in multidisciplinary areas, ranging from biomaterials development and characterization to medical devices development, evaluation and technology transfer. Over the last three decades, a number of products have been successfully developed and commercialized, catalyzing the growth of medical device industry in India.

In the current context of globalization, a quality management system for its testing services conforming to ISO/IEC 17025 has been implemented, enabling international acceptance of test results. This system is now accredited by *Le Comité Français d'Accreditation* (COFRAC) of France.

High quality research and publications have led to peer recognition as a valued scientific research institution nationally and internationally. This has resulted in many international collaborative research programmes.

Research Opportunities and Facilities:

Biomedical Technology Wing aims to bring advances in research outcomes of the laboratory into the clinical setting to benefit patients at the earliest opportunity. The exceptional infrastructure facilitated in the campus underpins biomedical research and enables advances to improve the patient care. Institute has focused on creating resources to develop technologies that are cost-effective, accessible and responsive to the clinical needs of our population.

The material research group has proven record of research towards synthesis and characterization of biomedical polymers, their characterization and testing for biocompatibility to qualify the material for medical applications. The engineering & device development group has successfully developed and commercialized critical products which include blood bag, artificial heart valve, and oxygenator.

Major programmes include development of materials for orthopedic and dental applications, cardiovascular device fabrication, drug delivery systems, nano-

medicine, sensors and tissue engineering scaffolds. Biological research focuses on culture and differentiation of adult stem cells for regenerative medicine, *in vitro* tissue engineering, development of bio therapeutics and diagnostic reagents.

Sophisticated analytical equipments are available in the campus for characterization of materials which include scanning and transmission electron microscopes, Raman & FT-Raman spectroscopy, atomic force microscope, ICP, X-ray diffraction, micro computerized tomography, chromatography systems such as HPLC, gas chromatography and LCMS. Other routinely used and well-maintained equipments and facilities are available in all labs.

Important biological research equipments available are confocal microscope, environmental SEM, fluorescent activated cell sorter (FACS), Real Time PCR, ultra centrifuge and continuous flow centrifuge, Imaging systems for fluorescence/ luminescence/ radioisotope detection, live cell imaging, and facilities for proteomic and genomic analysis etc. apart from routinely used equipments that are available in almost all labs. Excellent cell culture and analysis facilities are present in almost all cell biology research labs.

The well maintained small and large animal experimental facility with excellent animal operating rooms provides the *in vivo* evaluation support. Toxicological evaluation of materials is done under GLP compliance. Tissue analysis is done to evaluate the results of experimental research using state-of -art histological/immunochemical/imaging techniques facilitated with sophisticated sample processing and analysis tools.

Above all, BMT wing harness the academic and technological expertise of its multidisciplinary research faculty to conduct high-quality, patient-focused translational research. This involves taking research from the laboratory to the patient's bedside.

M.Phil. DEGREE COURSE IN BIOMEDICAL TECHNOLOGY
(12-month full time residential course - August to July)

*(Admission for M.Phil course will be notified during the first week of June every year.
Aspirants may visit www.sctimst.ac.in for the exact details in June)*

Objectives of this high quality academic and research training are :

1. Provide an excellent background in biomedical research with integration of chemical, biological and physiological aspects in a unified approach.
2. Emphasize an investigative as well as an empirical approach to the practical problems encountered in experimental and human biomedical science.
3. Training on research methodology which includes development of research hypothesis, work plan, experimental methods, data analysis and reproducibility and finally report preparation.
4. Impart theoretical and practical knowledge and competence that will prepare the student for employment in a variety of biomedical environments.
5. Improve communication skill through oral and poster presentations.

Expected Outcome :

1. The set of lecture and laboratory training courses are designed to strengthen their basic science background at the graduate level.
2. The experience gained will help in developing and focusing research skills in modern biomedical research laboratories.
3. Students will be encouraged to write competitive examinations conducted by various government agencies to obtain fellowships for pursuing a Ph.D. programme within the Institute or outside.
4. Students will gain awareness to determine if he or she really wants to make the commitment and pursue a lifelong research career.

Minimum Educational Qualifications for Admission :

MSc First Class in Biological/Chemical/Physical Sciences (including Polymer Sciences/Chemistry **but** excluding Plant Sciences and Bioinformatics)

Upper age limit :

28 years as on 1st August every year.

Method of selection :

1. The course is notified and the applications are called for in the prescribed format.
2. Applications received with all required enclosures are screened by an authorized committee of this Institute.
3. The selection will be based on the performance in written test and interview. The candidates who fulfill the minimum educational qualifications will be admitted for written test.
4. Those who qualify the written test will be called for interview.
5. Based on the performance in the interview, a panel of students are selected and waiting list will be prepared for admission.
6. Verification of the original certificates against the submitted copies will be done at the time of admission.

Stipend and contingency :

₹ 5,000/- per month (In case the student discontinues the course after 30th August, 2016, the student has to pay the penalty of six months stipend).

Accommodation :

To find accommodation outside the campus 15% of the stipend will be provided in case of shortage of accommodation in student's hostel.

Library :

A collection of various books in different disciplines are available. Facility for use of internet is also available at the library.

Fee Structure (pl. see Fees structure)

For further enquiries, please contact:

THE DEPUTY REGISTRAR
Division of Academic Affairs
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ANTI RAGGING AFFIDAVIT

Ragging in all its forms is prohibited in the Institute. All candidates admitted will submit anti ragging affidavit.

**JOINT PROGRAMMES
of
SCTIMST, IIT MADRAS AND CMC, VELLORE**

- 1. M.Tech. (Clinical Engineering)**
- 2. Ph.D. (Biomedical Devices and Technology)**

Introduction

Over the last five decades, healthcare delivery has increasingly become technology driven - be it diagnosis, treatment and rehabilitation of patients in the hospitals, or the development of new drugs, vaccines and medical devices. Today India imports almost 80% of the implants and devices used in our country. As a result, healthcare costs are high and continue to increase. In order to address this issue, a twofold strategy is needed. Firstly, it is required to set up the infrastructure and have trained human resources for indigenous technology development. Secondly, it is necessary to develop human resources for ensuring efficient and effective utilization of the technology at the healthcare delivery points - i.e., mainly in the hospitals.

The three institutions - IIT Madras, CMC, Vellore, and SCTIMST, Trivandrum, each having a set of unique strengths and facilities, have joined together in starting two programmes - "M.Tech in Clinical Engineering" and "Ph.D. in Biomedical Devices & Technology" to address the issue of capacity building for reducing India's dependence on imports of medical devices. A unique feature of these courses is the clinical attachment with a maximum exposure to the clinical environment. This ensures that, at the end of the course, the students will be able to interact effectively with the clinicians, and other medical and paramedical staff in the hospital resulting in the identification 'unmet clinical needs'. This is also expected to trigger further research leading to development of innovative indigenous healthcare technology.

Admission

(1) M.Tech. (Clinical Engineering)

Aim: To train engineers to manage and ensure safe and effective use of technology in hospitals and healthcare delivery settings.

Duration: Two and a half years (rotation through all the three institutions).

Eligibility: B.E./B.Tech./Recognized four year course; on the basis of GATE subject (AE, CE, CH, EC, EE, IN, ME, MN, MT, PI, TF, XE) and score.

Selection: Screening test and personal interview.

(2) Ph.D. (Biomedical Devices and Technology)

Aim:

- To be leaders in research and development
- To be innovators and entrepreneurs in Biomedical Devices Technology

Duration: According to current requirements of IIT Madras

Eligibility: M.E./M.Tech./M.S(Eng.) with the same eligibility conditions for IITM Ph.D. entrance/ M.Sc. Physics.

Selection: Screening test and personal Interview

Hostel: Hostel facilities are available in all the three Institutions.

Stipend: As per IIT Madras norms

Fees Structure:

(to be paid for the period required at BMT Wing, SCTIMST):

A) FEES FOR THE JOINT PROGRAMME- M.Tech (CE) AT SCTIMST

Sl. No	Items of Fees & Deposits	Fees (In Rupees)
A.	One time fees :	
1.	Admission fees	1000/-
2.	Registration Enrolment Fee	300/-
3.	Caution Deposit (refundable)	2000/-
4.	Certificate fees	1000/-
5.	Student Welfare Fund	500/-
6.	Identity Card	220/-
7.	Medical Exam Fee	100/-
	Total Refundable	5120/- 2000/-
B.	Semester fees:	
1.	Tuition fee *	5000/-
2.	Examination fee	300/-
3.	Library & Internet	500/-
	Total	5800/-
C.	Hostel Fees :	
1.	Hostel Admission fee	250/-
2.	Hostel room rent /month	1500/-
3.	Hostel Caution Deposit (refundable)	1000/-
	Total Refundable	2750/- 1000/-

* SC/ST students/scholars are exempted from payment of Tuition fee irrespective of their parental income.

B) FEES FOR Ph.D. JOINT PROGRAMME (BIOMEDICAL DEVICES AND TECHNOLOGY)

The same fee of the regular Ph.D. programme of SCTIMST for the period required at BMT Wing (pl. see the fees structure).

CO-ORDINATORS:

SCTIMST:

Mr.Muraleedharan CV

Scientist—G, Devices Testing Laboratory
SCTIMST, Poojappura, Trivandrum—695 012
Kerala State.
Tel: 0471-2520259
E-mail: muralicv@sctimst.ac.in

IIT Madras: Prof. Mukesh Doble
Head, Department of Biotechnology,
IIT Madras
Chennai-600036, Tamil Nadu State
Tel: 044-22574107
Email: mukeshd@iitm.ac.in

CMC Vellore: Prof. Suresh Devasahayam,
Head, Department of Bioengineering
Bagayam
Vellore-632002
Tel: 0416-2222102 Extn.4298
E-mail: surdev@cmcvellore.ac.in

For Application forms/number of seats/course fee etc., please visit the website of IIT, Madras, Chennai (www.biotech.iitm.ac.in).

For further enquiries please contact:

THE DEPUTY REGISTRAR
Division of Academic Affairs
SREE CHITRA TIRUNAL INSTITUTE FOR MEDICAL SCIENCES AND TECHNOLOGY
Trivandrum - 695011, Kerala, India.
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Website: <http://www.sctimst.ac.in>

AFFILIATED PROGRAMME OF SCTIMST
Offered at
NATIONAL INSTITUTE OF EPIDEMIOLOGY, CHENNAI

The National Institute of Epidemiology (NIE), ICMR School of Public Health, Chennai, which is an institution under the Indian Council of Medical Research (ICMR) is offering **Master of Public Health (Epidemiology and Health Systems)** under the affiliated programme of SCTIMST.

MPH commences from **1st July** every year.

Duration and Course Organization :

Duration: 2 years

The programme is structured on “learning by doing” model comprising of four contact sessions across 13 months at NIE interspersed and with three field postings of 11 months duration (24 months duration in total).

Eligibility:

Applicants having the following criteria will be eligible to apply for the course:

- MBBS degree recognized by the Medical Council of India
- Three years experience in public health related activities after MBBS
- Age up to 45 years as on the date of commencement of the course (1st July every year)

Course Fees:

There is no course fee for the candidates sponsored by the State/Central/UT Governments/Armed Forces. For others, the course fee will be ₹ 1,00,000/- (Rupees One lakh only) payable at the beginning of the academic year.

Method of selection:

A selection committee constituted and approved by the Director, SCTIMST will evaluate the prospective candidates on the basis of educational qualifications, professional experience relevant to public health, entrance examination (written test/interview). Preference will be given to the candidates sponsored by the State/Central/UT Governments and Armed Forces.

The application form can be held from the NIE, CHENNAI and the selection tests will also be held at NIE, Chennai.

The decision of the Director, SCTIMST shall be final in all matters.

For other details, please contact:

THE DIRECTOR

National Institute of Epidemiology (ICMR)

R-127, TNHB, Ayappakkam, Chennai - 600 077

Tamil Nadu

Phone: +91-44-26136420, Fax: +91-44-26820464/26136426

Email: directorne@dataone.in; nieicmr@gmail.com

URL: www.nie.gov.in

THE DEPUTY REGISTRAR

Division of Academic Affairs

Sree Chitra Tirunal Institute for

Medical Sciences and Technology

Trivandrum - 695 011, Kerala

Phone: +91 -471- 2520140 Fax: +01-471-2446443

Email : dreg@sctimst.ac.in, URL: <http://sctimst.ac.in>

AFFILIATED PROGRAMMES OF SCTIMST

offered at CHRISTIAN MEDICAL COLLEGE, VELLORE

The following courses are offered at the Christian Medical College, Vellore.

- 1. Master of Science Bioengineering**
- 2. Ph.D. in Bioengineering**
- 3. Master of Public Health**

- 1. Master of Science Bioengineering and**
- 2. Ph.D. in Bioengineering**

The aim of these two degree programmes is to train engineering graduates to work in a medical institution to conduct research and development that will directly lead to improved healthcare in India.

The Department of Bioengineering at CMC, Vellore, works closely with several other departments in the institute and current work ranges across physiological measurement, systems modeling, prostheses design, biomedical analysis, and biomedical signal processing.

Lecture and seminar based courses on Instrumentation, imaging systems, physiological systems, signal processing etc form part the basic training. Both the MS Bioengineering and Ph.D. in Bioengineering are specialized engineering programmes with emphasis on research. MS candidates will undertake a research project of one year duration, while Ph.D. candidates will undertake a substantially larger research problem. Students will interact closely with at least one of the clinical or basic science departments to formulate a research question.

These degrees equip individuals to apply quantitative and engineering methods to solve healthcare problems. Career prospects include academic research and teaching careers as well as R&D in the medical devices industry.

Eligibility:**1. MS Bioengineering applicants should have:**

1. An undergraduate degree in engineering, preferably electrical, electronic, mechanical, computer science or equivalent.
2. A qualifying GATE score is required.

2. Ph.D. in Bioengineering applicants should have :

1. An undergraduate degree in engineering, preferably electrical, electronics, mechanical, computer Science or equivalent, and a Masters degree in Engineering preferable Bioengineering/Biomedical Engineering, Electrical/ Electronics, Mechanical or equivalent.
2. A qualifying GATE score is required.
3. Some exposure to college level Biology or Biomedical Research.

Admissions:

Application to these two programmes is usually advertised at **CMC, Vellore** in February, and candidates must apply before the end of April. An interview of short-listed candidates will be called in June to select suitable candidates. Term starts in the last week of July.

Duration of course:

MS Bioengineering – 2 years

Ph.D. in Bioengineering – Normally 3 years, extendable up to 5 years.

Course Fees:

Admission fees (one time): ₹ 7,200/-

Annual Fees : ₹ 6,000/-

3. Master of Public Health Course

Who can apply:

Students with MBBS, MOT, MPT, BDS, MSc. Nursing, and equivalent degrees with a biology background.

Duration: 2 years

Core course subjects will be taught in the first year (60 credits). Teaching methods will include didactic lectures, assignments, exercises, community work for data collection, analysis and visit to public health/administrative facilities

Application form can be held from CMC Vellore and selection tests will also be held at CMC, Vellore.

For admission and further details, please contact :

Prof. Suresh Devasahayam
Head, Department of Bioengineering (for MS & Ph.D. in Bioengineering)
Bagayam, Vellore-632002
E-mail: surdev@cmcvellore.ac.in
Tel: 0416-2222102 Extn.4298

Prof. Shantidani Minz
Dept. Community Health
Christian Medical College, Vellore (for MPH programme)
Phone: 0416-2284207
E-mail: chad@cmcvellore.ac.in

The Deputy Registrar
Division of Academic Affairs
Sree Chitra Tirunal
Institute for Medical Sciences and Technology
Trivandrum – 695011
Tel: (0471) 2520440 , 2524140
E-mail: dreg@sctimst.ac.in

**FORM OF CERTIFICATE TO BE PRODUCED BY OTHER BACKWARD CLASSES
APPLYING FOR ADMISSION TO CENTRAL EDUCATIONAL INSTITUTIONS
(CEIs), UNDER THE GOVERNMENT OF INDIA**

This is to certify that Shri/Smt./Kum. _____
Son/Daughter of _____
Shri/Smt. _____ of _____
Village/Town _____ District/Division
_____ in the _____ State belongs to
the _____ Community which is recognized as a
backward class under:

- i. Resolution No. 12011/68/93-BCC(C) dated 10/09/93 published in the Gazette of India Extraordinary Part I Section I No. 186 dated 13/09/93.
- ii. Resolution No. 12011/9/94-BCC dated 19/10/94 published in the Gazette of India Extraordinary Part I Section I No. 163 dated 20/10/94.
- iii. Resolution No. 12011/7/95-BCC dated 24/05/95 published in the Gazette of India Extraordinary Part I Section I No. 88 dated 25/05/95.
- iv. Resolution No. 12011/96/94-BCC dated 9/03/96.
- v. Resolution No. 12011/44/96-BCC dated 6/12/96 published in the Gazette of India Extraordinary Part I Section I No. 210 dated 11/12/96.
- vi. Resolution No. 12011/13/97-BCC dated 03/12/97.
- vii. Resolution No. 12011/99/94-BCC dated 11/12/97.
- viii. Resolution No. 12011/68/98-BCC dated 27/10/99.
- ix. Resolution No. 12011/88/98-BCC dated 6/12/99 published in the Gazette of India Extraordinary Part I Section I No. 270 dated 06/12/99.
- x. Resolution No. 12011/36/99-BCC dated 04/04/2000 published in the Gazette of India Extraordinary Part I Section I No. 71 dated 04/04/2000.
- xi. Resolution No. 12011/44/99-BCC dated 21/09/2000 published in the Gazette of India Extraordinary Part I Section I No. 210 dated 21/09/2000.
- xii. Resolution No. 12015/9/2000-BCC dated 06/09/2001.
- xiii. Resolution No. 12011/1/2001-BCC dated 19/06/2003.
- xiv. Resolution No. 12011/4/2002-BCC dated 13/01/2004.
- xv. Resolution No. 12011/9/2004-BCC dated 16/01/2006 published in the Gazette of India Extraordinary Part I Section I No. 210 dated 16/01/2006.
- xvi. Resolution No. 12011/14/2004-BCC dated 12/03/2007 published in the Gazette of India Extraordinary Part I Section I No. 67 dated 12/03/2007.
- xvii. Resolution No. 12015/2/2007-BCC dated 18/08/2010.
- xviii. Resolution No. 12015/13/2010-BCC dated 08/12/2011.

Shri/Smt./Kum. _____

_____ and / or his
family ordinarily reside(s) in the
_____ District / Division of
_____ State. This is also to certify that he/she does

not belong to the persons/sections (Creamy Layer) mentioned in Column 3 of the Schedule to the Government of India, Department of Personnel & Training O.M. No. 36012/22/93-Estt.(SCT) dated 08/09/93 which is modified vide OM No. 36033/3/2004 Estt.(Res.) dated 09/03/2004 and further modified vide OM No. 36033/3/2004-Estt. (Res.) dated 14/10/2008 and further modified vide OM No. 36033/1/2013-Estt (Res.) dated 27/05/2013 or the latest notification of the Government of India.

Dated: District Magistrate / Deputy Commissioner/
Competent Authority

Seal

NOTE: a) The term 'Ordinarily' used here will have the same meaning as in Section 20 of the Representation of the People Act, 1950.

b) The authorities competent to issue Caste Certificates are indicated below:

i. District Magistrate / Additional Magistrate / Collector / Deputy Commissioner / Additional Deputy Commissioner / Deputy Collector / Ist Class Stipendiary Magistrate / Sub-Divisional magistrate / Taluka Magistrate / Executive Magistrate / Extra Assistant Commissioner (not below the rank of Ist Class Stipendiary Magistrate).

ii. Chief Presidency Magistrate / Additional Chief Presidency Magistrate / Presidency Magistrate.

iii. Revenue Officer not below the rank of Tehsildar' and

iv. Sub-Divisional Officer of the area where the candidate and / or his family resides.

The date of issue of OBC (NCL) certificate should be within one year from the last date of application.

IMPORTANT DATES OF ADMISSION

for the **ACADEMIC SESSION – January 2016**

Admission Notification	1st September 2015
Availability of on line Application	01.09.2015 to 30.09.2015
Last date for receipt of completed applications	7th October 2015
Commencement of courses	1st January 2016
Director's welcome address	8th January 2016

SCHEDULE OF ENTRANCE EXAMINATIONS/FINAL INTERVIEW

<i>Course</i>	<i>Date</i>	<i>Time</i>
MPH	02.11.2015	9.00 am
DPH	02.11.2015	9.00 am
Ph.D.	04.11.2015 & 05.11.2015	9.00 am
PG Diploma in Cardiac Laboratory Technology	06.11.2015	9.00 am
PG Diploma in Neuro Technology	07.11.2015	9.00 am
Diploma in Operation Theatre Technology	09.11.2015	9.00 am
PG Diploma in Clinical Perfusion	11.11.2015	9.00 am
MD Transfusion Medicine	12.11.2015 & 13.11.2015	09.00 am
DM Cardiology, DM Neurology, DM Neuroimaging & Interventional Neuroradiology, PDCC Cardiovascular Imaging and Vascular Interventional Radiology, PDCC Diagnostic Neuroradiology	12.11.2015 & 13.11.2015	9.00 am
DM Neuroanaesthesia DM Cardiothoracic and Vascular Anaesthesia MCh-CVTS, MCh Neurosurgery, MCh Neurosurgery (5-year course), PDCC Cardiothoracic and Vascular Anaesthesia, PDCC Neuroanaesthesia	12.11.2015 & 13.11.2015	11.30 am
PG Diploma in Blood Banking Technology	16.11.2015	9.00 am
Diploma in Cardiovascular & Thoracic Nursing Diploma in Neuro Nursing	17.11.2015 & 18.11.2015	9.00 am
Advanced Certificates Programme in Physiotherapy	19.11.2015	9.00 am
Diploma in Advanced Medical Imaging Technology	20.11.2015	9.00 am
PG Diploma in Medical Records Science	21.11.2015	9.00 am
Post-doctoral fellowship (Post-DM/MCh)	22.12.2015	11.00 am

No electronic gadgets including cell phone will be allowed in the examination hall.

Venue: Achutha Menon Centre for Health Science Studies (AMCHSS), SCTIMST.

All candidates who present for the written examination should confirm the time and date of practicals/departmental assessment and interview as applicable for their programme.

INTERVIEWS (for candidates selected in Written Test & Practical)

Time and Venue will be intimated along with the Selection List of candidates put up after the Written Examination.

Tentative **dates for Interview** are as follows:

Technology Diploma & Advanced Certificate Courses	: on the same days, immediately after written tests.
Master of Public Health	: 2nd November 2015, 11 .00a.m.
Diploma in Public Health	: 2nd November, 2015, 11.00 a.m.
Ph.D.	: 5th November 2015, 9 a.m.
Specialty Nursing Diploma Courses	: 18th November, 2015.
Post-doctoral Courses	: 12th & 13th November 2015.

The final selection list will be put up immediately after the interview.

Seats available/proposed for the Academic Session 2015 are;

<i>Programme</i>	<i>Open seats</i>	<i>Reserved for</i>		<i>Grand Total</i>
		<i>SC/ST</i>	<i>OBC</i>	
M.Phil.	8	3	4	15
MPH	13	5	7	25
DPH	5	2	3	10
Diploma in Nursing	11	3	6	20
PGDCLT	2	1	Nil	3
PGDNT	2	1	1	4
DOTT	1	1	Nil	2
DAMIT	2	1	Nil	3
PGDMRS	1	1	Nil	2
PGDBBT	1	1	Nil	2
PGDCP	1	1	Nil	2

ACP -PN	1	1	Nil	2
ACP -PC	1	1	Nil	2

Reservation of seats for Specialty Nursing Programme – 2016 session

Programme	Discipline	Seats
1	Cardiovascular and Thoracic Nursing	10
2	Neuro Nursing	10
	Total	20

Number of seats reserved under various categories are represented here under

Unreserved	Open to all candidates	11
Other Backward Classes (OBC)	Open to all candidates tallying the central list of OBC and not belonging to the creamy layer	6
Scheduled Caste (SC)	Open to all scheduled caste candidates	2
Scheduled Tribe (ST)	Open to all scheduled tribe candidates	1
	Total	20 seats

Roster Point for Specialty Nursing Diploma Programme

Counselling process through Roster Point Allocation	
Sl.No.	Roster Point Reservation
1	UR - 1
2	UR - 2
3	OBC - 1
4	UR - 3
5	OBC - 2
6	UR - 4
7	SC - 1
8	UR - 5
9	OBC - 3
10	UR - 6
11	OBC - 4
12	UR - 7
13	SC - 2
14	UR - 8
15	OBC - 5
16	UR - 9
17	ST - 1
18	UR - 10
19	OBC - 6
20	UR - 11

Definition of categories:

UR – Unreserved stands for all applicants including overseas citizen of India

OBC – Other Backward Classes – Applies to candidates whose sub-caste is notified in the central list of OBC

- (1) OBC candidates claiming reservation of seat should not belong to Creamy Layer. The last three years Income Tax Returns of their parents ending 31.03.2014 as proof of Non-Creamy Layer status should be produced at the time of counseling along with the original OBC Certificate to verify the claim of a seat under this category by the applicant.
- (2) Income certificate from competent Revenue Authority can be produced in case the parents are not filing any income tax.

SC/ST – Scheduled Caste / Scheduled Tribe – These seats are reserved for the candidates belonging to SC/ST as per Government instructions, provided candidates fulfill the minimum admission requirements prescribed by the Institute for the purpose. The candidate belonging to SC/ST are required to furnish certificate from a revenue officer not below the rank of Tahsildar, Sub-Divisional Officer of the area where the candidate and/or his family normally resides.

IMPORTANT CONTACT ADDRESSES

<i>Designation</i>	<i>Name</i>	<i>Telephone No.</i>	<i>email-ID</i>
Director	Dr.Asha Kishore	91-471-2524400	director@sctimst.ac.in
Head BMT Wing (Acting)	Shri. O.S.Neelakantan Nair	91-471-2520201	head-bmtw@sctimst.ac.in
Dean (Academic Affairs)	Dr.Suresh Nair N.	91-471-2524500	dean@sctimst.ac.in
Associate Dean (Ph.D Programme)	Dr.Prabha D Nair	91-471-2520242	prabha@sctimst.ac.in
Associate Dean (Research & Publication)	Dr.Shivakumar.K	91-471-2524593	shivak@sctimst.ac.in
Associate Dean (Student Affairs)	Dr.Shrinivas V G	91-471-2524641	shri@sctimst.ac.in
Associate Dean (Faculty Affairs)	Dr.Unnikrishnan.M	91-471-2524463	unni@sctimst.ac.in
Associate Dean (Examination and Curriculum Development)	Dr.Thomas Koshy	91-471-2524641	koshy@sctimst.ac.in
Registrar	Dr.A.V.George	91-471-2524150	reg@sctimst.ac.in
Deputy Registrar	Dr.Sundar Jayasingh S.	91-471-2520440/ 91-471-2524140	jsingh@sctimst.ac.in
Asst. Administrative Officer (Academic)	Academic Division	91-471-2524269 91-471-2524649 91-471-2524289	regoffice@sctimst.ac.in

HEADS OF DEPARTMENTS/DIVISIONS - Hospital Wing

Dept/Divn.	Head	Telephone No.	email-ID
AMCHSS*	Dr.K.R.Thankappan	91-471-2524231	thank@sctimst.ac.in
Anaesthesiology	Dr.Rupa Sreedhar	91-471-2524624	rupa@sctimst.ac.in
Biochemistry	Dr.P.S.Appukuttan	91-471-2524496	psappu@sctimst.ac.in
Clinical Engineering	Sri.Koruthu P Varughese	91-471-2524123	koruthu@sctimst.ac.in
Cardiology	Dr.Jaganmohan A Tharakan	91-471-2524455	jmt@sctimst.ac.in
Cardiovascular & Thoracic Surgery	Dr.Jayakumar K.	91-471-2524660	jay@sctimst.ac.in
Cellular & Molecular Cardiology	Dr.Renuka Nair R.	91-471-2524505	renuka@sctimst.ac.in
Transfusion Medicine	Dr.Jaisy Mathai	91-471-2524477	jaisym@sctimst.ac.in
Microbiology	Dr.Kavita Raja	91-471-2524222	kavita_raja@sctimst.ac.in
Neurology	Dr.Muralidharan Nair	91-471-2524450	mdnair@sctimst.ac.in
Neurosurgery	Dr.Suresh Nair N	91-471-2524647	snair@sctimst.ac.in
Nursing Education	Dr.P.P.Samma	91-471-2524416	ins@sctimst.ac.in
Pathology	Dr.Sandhyamani S.	91-471-2524605	ssm@sctimst.ac.in
Imaging Sciences and Interventional Radiology	Dr.Kapilamoorthy TR	91-471-2524117	kapil@sctimst.ac.in
Medical Records	Sri.Thampi N.G.	91-471-2524415	thampi@sctimst.ac.in

*Achutha Menon Centre for Health Science Studies

BIOMEDICAL TECHNOLOGY WING

<i>Division/Lab</i>	<i>Name</i>	<i>Phone</i>	<i>E-mail</i>
Bioceramics	Dr.P.R.Harikrishna Varma	0471-2520220	varma@sctimst.ac.in
Confocal Microscopy & Experimental Pathology	Dr.TV Anilkumar	0471-2520305	tvankumar@sctimst.ac.in
Dental Products	Dr.V.Kalliyana Krishnan	0471-2520221	kalyankv@sctimst.ac.in
Devices Testing Lab	Mr.Muraleedharan CV	0471-2520259	muralicv@sctimst.ac.in
Implant Biology	Dr.Sabareeswaran A	0471-2520311	asw@sctimst.ac.in
In-vivo Models and Testing	Dr.P.R. Umashankar	0471-2520226	umashnkr@sctimst.ac.in
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Modelling and Prototyping Lab	Mr.D.S.Nagesh	0471-2520217	nagesh@sctimst.ac.in
Molecular Medicine	Dr.Anoop Kumar Thekkuveetil	0471-2520256/257	anoop@sctimst.ac.in
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Polymer Processing	Dr.P.Ramesh Dr.Roy Joseph	0471-2520225 Extn.225/265/275	rameshp@sctimst.ac.in rjoseph@sctimst.ac.in
Thrombosis Research	Dr.Lissy K.Krishnan	0471-2520219	lissykk@sctimst.ac.in
Tissue Culture	Dr.T.V.Kumary	0471-2520261	tvkumari@sctimst.ac.in
Tissue Engg. & Regeneration Technologies	Dr.Prabha D Nair	0471-2520242	prabha@sctimst.ac.in
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