

## Laboratory Glimpses



First Year Engineering Workshop



Fluid Mechanics Laboratory



Heat Engines Laboratory



Machine Shop



CAD Lab.



Computer Aided Manufacturing Laboratory



Alternative Energy Research Center (AERC)



Centre of Excellence in Automotive Training (CoE AT)



Metrology Laboratory



Thermal Engineering Laboratory



## Contact us

Prof. Ayyappadas G  
Head of the Department  
Department of Mechanical Engineering  
Contact: 0471-2410641, 9496370754 & 8547874584  
Email: ayyappadas.me@stisttvm.edu.in  
Website: <http://www.stisttvm.edu.in>

For B.Tech 1st year provisional admissions register:  
[tinyurl.com/2023STISTBTECHADMISSIONS](https://tinyurl.com/2023STISTBTECHADMISSIONS)

For B.Tech lateral entry provisional admissions register:  
<https://tinyurl.com/2023STISTLETADMISSIONS>

FB Page : St Thomas Institute for Science & Technology Instagram: stist.tvm

## PLACEMENTS



Shibin Binny  
Dolphin Group, UAE, 2022



Akhil Murali  
TITAN Engg. & Automation  
Hosur, 2022



Vishnu Lal AM  
TATA Elxsi, 2022



Rohith J L  
TL Technologies, 2022



Vishnu M  
C&T Engineers, 2023



Vishnu S D  
Brahmos, 2023



Akhil V Nair  
Texcel Technologies, 2023



Ashok M J  
Anand Technologies, 2023



Ananthu Krishna J  
Trainee, ISRO, 2023

## ACHIEVERS



Rohith J L  
University rank 13  
2022



Swaraj R  
University volleyball team  
2023



Aswanth A  
KTU A-Zone cricket  
2023



# ST. THOMAS INSTITUTE FOR SCIENCE & TECHNOLOGY

College Code

Mar Chrysostom Nagar, Kattaikon  
Trivandrum

Email: [principal@stisttvm.edu.in](mailto:principal@stisttvm.edu.in)

Contact us: 9497257415 | 9496370754 | 9447213222

0471-2410641 / 2410640

Department of Mechanical Engineering (Information Brochure)  
Affiliated to APJ Abdul Kalam Technological University,  
Trivandrum, Kerala  
Approved by the All India Council for Technical Education (AICTE)





### About the Institute

Set in a picturesque and modern campus of 20 acres, St. Thomas Institute for Science & Technology (College Code: STI), Trivandrum was established in the year 2010 by the Mar Thoma Church Educational Society, who are well known pioneers in the field of education since 1967. The college patron is His Grace The Most Rev. Dr. Theodosius Mar Thoma Metropolitan and the president is Rt Rev Dr Joseph Mar Barnabas Suffragan Metropolitan.

The institute is affiliated to APJ Abdul Kalam Technological University, Trivandrum, Kerala and imparts high quality, affordable education, training, R&D and values to students from all strata of the society. Many of its alumni are employed in leading positions in industry, academia and government in both India and abroad. It's also one of the best student centric campuses in India.

### About the Department of Mechanical Engineering

The Mechanical Engineering Department is one of the cardinal departments of St Thomas Institute for Science & Technology, established in the year 2010. The department is dedicated towards the advancement of technology and science & offers a 4 year B.Tech degree with an intake of 60. The department has 2 Centre of Excellence: Automotive Training (CoE AT) & Robotics & Automation (CoE R&A) & 7 industrial grade laboratories. The department is devoted to quality teaching, outstanding research & development activities with its highly qualified faculty members. The department handles research projects funded by various agencies & organizes training programs/workshops at regular intervals. An interactive relationship is maintained between the students and staff which enable the students to develop a sound foundation in the stream in a conducive environment. This is reflected in our campus placement with our students getting placed in good industries across the country, year after year. About 10% of our students proceed to top universities abroad to pursue their higher education.

The department has excellent industrial interactions with professional bodies such as: ISHRAE & ISTE and contributes to the industry by offering consultancy services. Some of them are: Bimlabs Engg. Services Pvt. Ltd., Tech Savio, Stat Consultancy, MITE & other ancillary units.

### Vision & Mission of the department

#### Vision

To become the major hub and a centre of excellence for producing mechanical engineering professionals with strong social, moral, and ethical principles through high-quality technical education

#### Mission

- To establish a conducive environment to lay the foundations in Mechanical Engineering, via efficient teaching-learning process and adherence to an industry-coherent curriculum.
- Provide advanced level training in theory and practicals so as to orient students to the industry and enroot human and social values
- Empower mechanical engineering professionals of the future by providing knowledge-based services and industry ready training.

### About the Program & Its Objectives

The educational objectives of the Mechanical Engineering programme are designed to produce competent engineers who shall:

- PEO1:** Apply knowledge of computer aided analysis, design, modelling and simulation to provide solutions to industrial problems in diverse domains.
- PEO2:** Pursue professional career by developing products and services to address social, technical and business challenges and needs
- PEO3:** Be engaged in creative efforts and research under collaborative and multidisciplinary environments using modern tools and processes.

### Eligibility Criteria

#### For Admission to B.Tech First Year Engineering Course

- Candidates passed in Higher Secondary Examination, Kerala, or equivalent, with Physics & Mathematics as compulsory subjects & Chemistry as one of the optional subject with 45% marks are eligible for admission. If the candidate has not studied Chemistry, the marks of Computer Science will be considered. If the candidate has not studied Chemistry & Computer Science the marks of Biotechnology will be considered. In case, the candidate has not studied Chemistry, Computer Science & Biotechnology the marks of Biology will be considered.

- For SC/ST/SEBC & PwD quota candidates, minimum marks required for admission shall be 5% less than that of general category.

#### For Admission to B.Tech Lateral Entry (direct second year) Engineering Course

- Candidates passed three year Diploma Examination in Engineering/Technology (two years in case of Lateral Entry Diploma)/D.Voc. from State Board of Technical Education/Universities or Institutions under Govt. of India, undergoing studies at AICTE approved institutions, with 45% marks in Aggregate (40% in the case of reserved category candidates), are eligible to apply.
- Candidates passed B.Sc. degree examination from an UGC recognized university with 45% marks in Aggregate (40% in the case of reserved category candidates), having passed 10+2 examination with mathematics as a subject are eligible to apply.

### Features of the Department

- Centre of Excellence in Automotive Training (CoE AT) and Robotics & Automation (CoE R&A)
- ICT based learner centric academic environment
- Industry participation in teaching-learning
- Beyond the curriculum teaching
- Engineering design & Innovation projects
- Soft skill, life skill & interdisciplinary electives
- Industrial standard laboratories
- STIST online learning platform & flipped classroom
- Remedial & extra classes for weak students.
- Regular webinars, workshops, hands on training sessions & other technical events on recent technologies.
- Job oriented additional courses
- Project based learning, industrial visits & internships
- Special sessions for competitive exams like GATE, UPSC & KPSC
- Placement training facilities, personality & communication skill development programmes with 100% placement assistance
- IEDC funded project opportunities, start up & incubation support
- 'TORQUE' department association, coordinates technical & extracurricular activities among students
- Affordable transport facility, Wi-Fi campus, hostel facilities for boys and girls, sanitized, spacious & all-time favourite college canteen

### Market & Career Potential

Particulars	Junior/Entry level (0-5 year's exp)	Middle level (6-15 year's exp)	Senior Level (15 years and above)
Average Salary	Govt/PSU 6,00,000 - 7,50,000 Private Companies 3,00,000 - 5,00,000	Govt/PSU 7,50,000 - 12,00,000 Private Companies 5,00,000 - 10,00,000	Govt/PSU 12,00,000 - 20,00,000 Private Companies 10,00,000 - 15,00,000
Govt/PSU: Job Profile	Scientist 'SC' Junior Engineer Assistant Engineer	Scientist 'S D/E' Senior Engineer Executive Engineer	Scientist 'S F/G' Management Executive Director
Private Sector/ MNC's: Job Profile	Junior Engineer Project Engineer Design Engineer Quality Control Analyst R & D Engineer Data Analyst Maintenance Engineer Financial Analyst	Executive Engineer Senior Engineer Divisional Head	Chief Engineer Chairman Director
Education Sector: Job Profile	Lecturer Assistant Professor	Associate Professor, Department Head	Professor, Dean, Principal, Director
Career Opportunities	Govt/PSU: IES, ISRO, DRDO, NTPCL, SAIL, BHEL, BrahMos, ONGC, IOCL, BPCEL, CIL, BMEL, AAI Education: Top Universities (MIT, IISc, IIT, IIM), Top B - Schools, Private Universities, R & D organizations Private Sector/MNC's: L&T, TCS, Infosys, Hindustan Unilever, Tata Motors, Banking Sector, Supply chain analyst, MarutiUdyog Ltd, Honda Motors Entrepreneurship: Start up companies, Fabrication plant		