

LABORATORY GLIMPSES

ACHIEVERS



ST. THOMAS

INSTITUTE FOR SCIENCE & TECHNOLOGY



FIRST YEAR ENGINEERING WORKSHOP



**THERMAL ENGINEERING
LABORATORY**



FLUID MECHANICS LABORATORY



HEAT ENGINES LABORATORY



MACHINE SHOP

**ALTERNATIVE ENERGY
RESEARCH CENTER (AERC)**



**COMPUTER AIDED
MANUFACTURING LABORATORY**



METROLOGY LABORATORY



CAD LABORATORY



**CENTRE OF EXCELLENCE IN
AUTOMOTIVE TRAINING (COE AT)**



**ALWIN PANICKER
TOPPER-S7, 2024**



**GOWRI S R
TOPPER-S6, 2024**



**AMAL ASHOK
TOPPER-S4, 2024**



**KRISHNA PRIYA
TOPPER-S2, 2024**



**ALWIN PANICKER
GATE AIR - 14690,
2024**



**ASWANATH, ASWIN, AMAL, JITHIN
KTU A-ZONE CRICKET, 2024**

PLACEMENTS



**GOWRI S R
FORBES MARSHALL
PUNE 2025**



**AFIYA S S
FORBES MARSHALL
PUNE 2025**



**ANANTHAKRISHNAN M R
IPA BANGALORE
2025**



**ALWIN GEORGE
AUTOBAHN TRUCKING
TVM, 2025**



**MELVIN S TATA
AUTOBAHN TRUCKING
TVM, 2025**



**SHAWN CHERIAN BOBBY
AUTOBAHN TRUCKING
TVM, 2025**



**AKSHATH S R
AL HAJRI CORP.
UAE, 2024**



**AKSHAY S R
AL HAJRI CORP.
UAE, 2024**



**ABHISHEK ROBERT
TUV REHEINLAND
TVM, 2024**



**VISHNU U M,
AL KHOORY SOLN.
UAE, 2024**



**FAHAD NILOFAR
WAVE REFRIGERATION
TVM, 2023**



**ABHAY DEV
WAVE REFRIGERATION
TVM, 2023**



**ANANTHU KRISHNA
TRAINEE - ISRO
TVM, 2023**



**MOHAMMED ASHIK
DESCON ENGG.
UAE, 2023**



**JOBIN ALBIN
NEO STRUCTO
SURAT, 2023**



**VISHNU S D
SMEC AUTOMATION
KOCHI, 2023**

CONTACT US

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SCAN & APPLY

**COLLEGE
CODE: STI**

Department of Mechanical Engineering
(Information Brochure)

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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 1966. The college patron is His Grace The Most Rev. Dr. Theodosius Mar Thoma Metropolitan and the president is Rt. Rev. Dr Isaac Mar Philoxenos Episcopa.

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 30. The department has 1 Centre of Excellence: Automotive Training (CoE AT) & 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: AMODOS Robotics Training & Research Centre, Bimlabs Engg. Services Pvt. Ltd., Tech Savio, Stat Consultancy, MITE & other ancillary units.

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.

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..

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 candidate has not studied Chemistry, the marks of Computer Science will be considered. If 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

1. Centre of Excellence in Automotive Training (CoE AT)
2. ICT based learner centric academic environment
3. Industry participation in teaching-learning
4. Beyond the curriculum teaching
5. Engineering design & innovation projects
6. Soft skill, life skill & interdisciplinary electives
7. Industrial standard laboratories
8. STIST online learning platform & flipped classroom
9. Remedial & extra classes for weak students
10. Regular webinars, workshops, hands on training sessions & other technical events on recent technologies
11. Job oriented additional courses
12. Project based learning, industrial visits & internships
13. Special sessions for competitive exams like GATE, UPSC & KPSC
14. Placement training facilities, personality & communication skills development programmes with 100% placement assistance
15. IEDC funded project opportunities, start up & incubation support
16. 'TORQUE' department association, coordinates technical & extracurricular activities among students
17. Affordable transport facility, Wi-Fi campus, hostel facilities for boys and girls, sanitized, spacious & all-time favorite 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, NTPC, SAIL, BHEL, BrahMos, ONGC, IOC, BPCL, CIL, BEML, AAI, INDIAN RAILWAYS, GAIL, COCHIN SHIPYARD, ETC..... 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, SUZUKI, HONDA MOTORS, RELIANCE INDUSTRIES, AUTOBAHN TRUCKING, ETC..... Entrepreneurship: Start up companies, Fabrication plant		