

LABORATORY GLIMPSES



ADVANCED GEOTECHNICAL
LABORATORY

ADVANCED DESIGN
STUDIO

ACHIEVERS



FIELD VISIT, ASSET
HOMES, 2025

CONSULTANCY,
MTCS, 2024

CONFEST, IEI, 2024

ASCP, 2024



NATIONAL CONFERENCE
IEI, 2023

2ND PRIZE, IGS-QUIZ
2022

PROCEEDINGS, ASCP
2024

PLACEMENTS



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SCAN & APPLY



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ST. THOMAS INSTITUTE FOR SCIENCE & TECHNOLOGY

COLLEGE
CODE: STI



Department of Civil Engineering (Information Brochure - M.Tech, Geotechnical Engineering)

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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 Civil Engineering

The Department of Civil Engineering was established in 2010, initially offering UG (B.Tech) Programme. The PG (M.Tech) programme in Geotechnical Engineering commenced in the year 2014. We are proud and happy that the good infrastructure and facilities coupled with a team of committed, caring and competent staff have made the department one of the preferred choices for aspiring graduates and postgraduates in Civil Engineering. The department has 7 well equipped industry-grade labs to support the academic programs, research & consultancy, ICT classrooms with multimedia facilities & secure Wi-Fi, hi-end computational facilities & a Centre of Excellence in Construction Materials Testing (CoE CMT) that supports the needs of nearby industries. The department specialties include field projects & visits, industrial internships & job oriented courses, dynamic & experienced faculty members, GATE & aptitude classes, student counselling & personality development, entrepreneurship support & extra/co-curricular activities. Classroom to Career (C2C) programs initiated in the department are structured so as to make the students industry-ready and employable. Many events have been organized in the College such as career guidance activities, workshops on Primavera, Revit Software, Expert talks and the signing of MoUs with the industries. Student Chapters of IGS and Civil Engineering Association ("TAEZIZ") are active in organizing online webinars and co-curricular activities.

The department organized an International Conference on Recent Trends in Construction Materials & Structures (ICCMS-2021) wherein faculty and students from institutions (national & international) contributed their research findings. The department undertakes various projects including government projects through the industry attachment cell of APJ Abdul Kalam Technological University. Recently the Department of Civil Engineering, St. Thomas Institute for Science & Technology (STIST), Trivandrum in association with the Indian Geotechnical Society (IGS) STIST Student Chapter organized a National Conference "Advancing Sustainability in Civil Engineering Practices – 2025 (ASCP'25)" on 2nd and 3rd May 2025. ASCP'25 delved into multifaceted topics ranging from green infrastructure and resilient design to renewable energy integration and waste management in construction.

About the Program & Its Objectives

The PG (M.Tech) Programme provided by the Department of Civil Engineering is Geotechnical Engineering. The PG (M.Tech) Programme has an intake of 12 seats. The normal duration of the M. Tech programme, including the project work, shall be four semesters.

Geotechnical Engineering discipline gives information about the engineering behaviour of earth materials. It uses principles of soil mechanics and rock mechanics. The Geotechnical Engineering Laboratory has the machines and equipment to conduct various experiments for students to satisfy the academic curriculum. The laboratory helps in identifying the engineering behaviour of geomaterials and byproducts. This course is supported by Advanced Geotechnical Laboratory which has high-end equipment like a triaxial testing machine, direct shear testing machine, plate load testing machine etc and software for soil modelling.

Vision & Mission of the department

Vision

To be a prominent department that produces civil engineering graduates that have moral character and technical proficiency.

Mission

- To provide the finest learning environment possible by combining practice and theory.
- To offer students the chance to do research to address the problems in civil engineering
- To work with industry to address challenges with infrastructure, quality control, and environmental protection.

Eligibility Criteria

For Admission to M.Tech Course

- The applicant must have a minimum of 60% aggregate marks in the engineering degree examination from an institution approved by AICTE. For SEBC (OBC) applicants, a minimum of 54% marks in the Engineering Degree examination is mandatory.
- College will conduct admission from the rank list of DTE, after inviting separate applications and ascertaining the eligibility for admission as per the norms of the university following the statutory reservation policy.

Features of the Department

- Centre of Excellence in Construction Materials Testing (CoE CMT)
- 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 skills development programmes with 100% placement assistance
- IEDC funded project opportunities, start up & incubation support
- Student chapter of Indian Geotechnical Society (IGS) & "TAEZIZ" department association coordinates technical & extracurricular activities among students
- MoUs signed with various industries like: BIMLABS Engineering Services Pvt Ltd., Rajadhani Career Academy For Civil Engineering, Core Institute of Technology, Kerala Industrial Infrastructure Development Corporation (KINFRA), Indian Institute of Infrastructure and Construction (IIIC).
- 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 (0-3 years Exp.)	Middle level (3-8 years Exp.)	Top-level/ Senior level (8+ years Exp.)
Avg. Salary (INR)	(2,40,000 – 4,80,000)	(5,00,000-8,00,000)	8,00,000+
Govt/PSU	Entry level Engineer Project Engineer	Senior Engineer Engineering Manager	Executive Engineer Chief Engineer
Private Sector (MNCs)	Project Engineer Site Supervisor Technical Expertise	Implementation Engineer Project Engineer Facilities Management Quality Control	Program and Portfolio Management Operations Manager Executive Senior Manager
Consultant	Entry Level Engineer Project Engineer Technical Expertise	Program Management Technical Principal Corporate Expert	Chief Engineer Global Expert CEO
Education Sector	Assistant Professor	Associate Professor, Professor	HoD, Dean, Director
Career Opportunities	Govt/PSU: ISRO, DRDO, AAI, PWD, NHAI, CWRDM, INDIAN RAILWAYS, ONGC, NATPAC, PMGSY PROJECTS, NTPC, PGCIL etc. Education: Top Universities (MIT, IISc, IIT, IIM), Top B - Schools, Private Universities, R & D organizations Private Sector/MNC's: L&T, Shapoorji Pallonji, Tata Projects, Afcons Infrastructure, Mott MacDonald India, SOBHA Group, ULCCS, Adani Group, Jacobs Engineering, Skyline Builders etc. Entrepreneurship: Business Start-ups including Builder & Developer, Real Estate, Contractor, Valuer, Pre-fabricated & Modular Housing Business, Structural Consultancy, Surveying & Mapping services, Material Testing & Quality Control, Green Building & Sustainability Consulting, Disaster Management & Risk Assessment etc.		