

LABORATORY GLIMPSES



OBJECT ORIENTED LABORATORY



OPERATING SYSTEMS LAB



PYTHON AND STATISTICAL
MODELING LABORATORY



DATA ANALYTICS LAB



DATABASE MANAGEMENT
SYSTEMS LAB



BIG DATA
PROCESSING LAB

ACHIEVERS

NEW PROGRAMME COMMENCING
IN AUGUST 2025

PLACEMENTS

NEW PROGRAMME COMMENCING
IN AUGUST 2025

CONTACT US

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SCAN & APPLY



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ST. THOMAS INSTITUTE FOR SCIENCE & TECHNOLOGY



COLLEGE
CODE: STI

Department of Computer Science & Engineering-(Artificial Intelligence & Machine Learning)

(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 Computer Science & Engineering-AI & ML

St. Thomas Institute for Science & Technology introduced the B.Tech course in Artificial Intelligence and Machine Learning in the year 2025, to train students in the rapidly evolving domains of AI & ML. This programme functions as an additional specialization under the Department of Computer Science and Engineering.

Over the past decade, the Department of Computer Science has successfully produced industry-ready computer engineering graduates with excellent academic credentials. The department has consistently attracted top engineering aspirants from across the country and boasts a team of well-qualified and experienced faculty.

The department houses 6 state-of-the-art laboratories including: Object & Procedure Oriented Programming Lab, Microprocessors Lab, Operating Systems Lab, Free & Open Source Software Lab, Database Systems Lab, and Compiler Design Lab, all of which support the curriculum and offer access to high-end computing facilities. The department is also actively engaged in research and consultancy activities. Furthermore, the Centre of Excellence in Java and Python (CoE J&P) offers extensive programming skill development with hands-on training. The department encourages student-led projects in areas such as Deep Learning, Natural Language Processing, Computer Vision, and Robotics, supported by funding from IEDC, and has signed MoUs with Reflections Info Systems Pvt. Ltd. and other industry partners for collaborative academic ventures.

About the Program & Its Objectives

B.Tech in Artificial Intelligence and Machine Learning is a relatively new and rapidly advancing multi-disciplinary field focused on developing intelligent systems capable of learning, reasoning, and decision-making. It involves the design, development, and deployment of algorithms and models that enable machines to perform tasks typically requiring human intelligence, such as pattern recognition, natural language processing, and autonomous decision-making.

The course curriculum offers a balanced mix of computer science, machine learning algorithms, data analytics, mathematics, and domain knowledge to solve complex real-world problems. Throughout the programme, students are trained to integrate AI techniques, tools, and models with practical applications to create intelligent and innovative solutions across various industries.

Artificial Intelligence and Machine Learning programme objectives are structured to develop engineers who will be able to:

- PEO1: Apply analysis, design, optimization, and implementation skills to formulate and solve AI & ML and multidisciplinary problems.
- PEO2: Pursue higher studies, research & development, and other creative endeavors in science & technology.
- PEO3: Employ their skills in an ethical and professional manner to meet the expectations of stakeholders and contribute to societal advancement.

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 Java and Python (CoE J&P)
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. "X-Coders" 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 (0-3 Years Exp)	Middle Level (3-8 Years Exp)	Top Level/ Senior Level (8+ Years Exp)
Avg. Salary (INR) Per Annum	(4,00,000-12,00,000)	(6,00,000-16,00,000)	(10,00,000 +)
PSU & Government <ul style="list-style-type: none">• IT Officer in public sector banks• National Informatics Center- Scientist• IT Officer• DRDO- Scientists• ISRO	Assistant System Engineer	Software Developer	Software Associate/Data Analyst
Private Sector (MNCs) <ul style="list-style-type: none">• Machine Learning Engineer• AI Engineer• Computer Vision Engineer• Natural Language Processing (NLP) Engineer• Robotics Engineer• Software Developer• AI Product Manager• AI Consultant	Software Engineer	Associate Software Engineer-TL	Associate Consultant/Software Architect
Education Sector	Assistant Professor	Associate Professor, Professor	HoD, Dean, Director
Career Opportunities	Govt/PSU: BEL, BSNL, IOCL, ONGC, ISRO, DRDO, NIC, C-DOT, ECIL, BARC, IDRB, RBI, SBI, IBPS, NPCI etc. Education: Top Universities (MIT, IISc, IIT, IIM), Top B - Schools, Private Universities, R & D organizations Private Sector/MNC's: TCS, INFY, WIPRO, HCL, CTS, IBM, ACC, LAT INFOTECH, TECH MAHENDRA, MINDTREE, PERSISTENT, MPHASIS, SAP, ORACLE, DELL etc. Entrepreneurship: Business Startups- Own Technical Industry, Hardware Maintenance etc.		