St. Thomas

College of Engineering & Technology

CHENGANNUR

STC

EDUCATIO VINCERE TENEBRIS

EDUCATE
TO INNOVATE

P R O S P E C T U S

NAAC NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL | **NBA** NATIONAL BOARD OF ACCREDITATION | **ISO** 9001:2015

the
college

St. Thomas College of Engineering & Technology, Chengannur (STC) was established in 2010 by St. Thomas Educational Society, Adoor. The college is situated in a welcoming serene environment in a sprawling 15 acres of land facing a panoramic lake. The campus enriches a pleasant learning environment, a wide array of opportunities to learn, every corner that is filled with life and high spirits, discipline and commitment going hand in hand for achieving the professional ambition of the students and the vision and mission of the institute.

why STC is
distinctive?

NBA Accredited Institution	NAAC Accredited	ISO 9001 : 2015 Certified Institution
Member of United Nations Academic Impact Programme (UNAI)	National & International Placements to 80% of students during the academic year 2022 – 23	Acclaimed as the 'Best Performing Engineering College" by Rebuild Kerala Initiative.
Encourage and Support Student Startups. Startups are functioning with grants from Kerala Startup Mission, Government of Kerala.	STC Labs are approved by Government of Kerala as the second tier quality control mechanisms of the projects undetaken by PWD, Irrigation Departments etc.	Memorandum of Understanding between National and International Organizations for academic and Industrial collaborations.
Nodal agency for social impact analysis of major projects in Alappuzha District.	Conducted International Hackathon- DEKATHON 2022	MOU with Universiti Teknologi MARA (UiTM) Malaysia for student-faculty exchange and collaborative research.

management

St. Thomas College of Engineering & Technology is established by St. Thomas Educational Society, Adoor Tower, Adoor. Today St. Thomas Educational Society enjoys a comfortable space in the educational sector of Kerala by the establishment of colleges and schools.

Er. Jose Thomas
Manager & CEO – STC
Secretary, St.Thomas Educational Society

30 Years Industrial Experience in the field of Engineering & Management in Gulf Countries

20 years experience in education sector in Kerala.

Vice president of the All India Federation of Self Financing Technical Institutions

Major Establishments: Travancore International School, Adoor Cavunal Rubber Industries, Lions Eye Hospital,Palai etc.

Dr. Judy Babu Thomas
President
St.Thomas Educational Society

15 years of experience as medical practitioner and also administering the service and business establishments started by himself and the parents –
Late Er. Babu P Thomas (Palazhi) and Late Mrs. Gracy Babu.

Positions/ Establishments :
Managing Director :
Wyte Portico Hotels & Resorts, Adoor
Palazhi Plantations
Palazhi Filling Station, Adoor
Neonatology & Paediatrics
Consultant –Lifeline Hospital, Adoor

Mr. Jacob Thomas
Finance Officer– STC
Treasurer
St. Thomas Educational Society

A financial expert with 30 years of expertise in managing organizations in India and abroad as Chief Accountant and Finance Manager

Positions/Establishments:
Director, Capvest Financial Services Ltd.

administration

Dr. Shajan Kuriakose has completed the Masters Degree and Ph.D in Mechanical Engineering from Indian Institute of Technology Madras. He joined M.A. College of Engineering, Kothamangalam as Lecturer in 1986 and was serving as Professor and Head of the Department of Mechanical Engineering till March 2020. During the service tenure, he served as member in the administrative and academic bodies of the institution/university, research guide of M.G. University and the expert committee member of AICTE approval process.

Dr. Shajan Kuriakose
Principal

courses **offered**

B.Tech Courses

Civil Engineering

Mechanical Engineering

Electrical & Electronics Engineering

Electronics & Communication Engineering

Computer Science & Engineering

Agriculture Engineering

Computer Science & Engineering (Artificial Intelligence & Machine Learning)

Computer Science & Engineering (Data Science)*

VISION

To be an Institute of repute recognised for excellence in education, innovation and social contribution.

MISSION

M1 : Infrastructural Relevance
Develop, maintain and manage our campus for our stakeholders.

M2 : Life Long Learning
Encourage our stakeholders to participate in lifelong learning through industry and academic interactions.

M3 : Social Connect
Organize socially relevant outreach programs for the benefit of humanity.

"Visited this prestigious engineering college on the occasion of the induction programme. I think it is a great privilege in my life. May God bless this institution and its service to the community. I wish every success in the future programme of this college."

**Rt.Rev. Dr. Philipose Mar Chrysostom
Marthoma Valiya Metropolitan**

civil
engineering

The demand for trained personnel in Civil Engineering is obvious, omnipresent and ever increasing. Civil Engineers improve systems and processes that allow humans and nature to coexist with minimal impact. Practical knowledge is the ultimate aim & aspiration of the Civil Engineering Department and furnished with an excellent infrastructure to enrich the students. Today is an era of "interdisciplinary approach" and everybody must have a minimum basic knowledge of all the branches and discipline. The department is taking more focused and multidimensional efforts to make the "foundation of the students" as strong and as safe as possible.

career opportunities
Structural Engineer,
Design Engineer,
Environmental Engineer,
Planning Engineer

facilities

Civil Engineering Workshop
Material Testing Lab I & Lab II
Surveying Lab
Transportation Engineering Lab
Geotechnical Engineering Lab
Fluid Mechanics Lab
Computer Aided Designing & Drafting Lab
Environmental Lab

add on courses

- **Non Destructive Testing**
  (Certified by American Society for
  Material Testing)
- **Civil QAQC**
- **Quantity Surveying**
- **Total Station Surveying**
- **Civil Engineering Software Training**
- **MOOC Courses of Foreign Universities**

> " My College and the days I spend there is always close to my heart and it cherishes my mind every time I think of it. The infrastructure and scenic beauty are beyond words and have to be experienced. Academic sessions are also very excellent. Supportive and friendly teaching atmosphere makes every student feel better in regards with the study loads. Lab facilities have most modern equipment which are inevitable for a profession like engineering and helps in getting more knowledge about real world experience. A calm and fairly arranged library with all textbook references needed for all department students is also to be mentioned. All these together make the campus life so real and enjoyable. I will always be grateful to STC for giving me such a memorable college days in my life.

Sona Sajan
(2015 -19 Batch)
Project coordinator,
Mace Consultancy
Limited, Canada

consultancy works

Apart from the academic activities, Civil Engineering is providing consultancy services to government and private institutions under Centre for Research Innovations & Consultancy (C-RIC) of the institution. The consultancy works gives an opportunity to the students to acquire practical knowledge and experiences related to industry. Our clients include LSGD, PWD, Rebuild Kerala etc

STC-Signing an Agreement with Koothattukulam Municipality for the structural design consultancy of New Municipality Building

MOU / TIE UP

The department of Civil Engineering has signed Memorandum of Understanding with government and private organizations for industrial and academic collaborations, internships, technical talks, industrial visits and project works :
Rebuild Kerala Initiative, LSGD, Kerala
Skill Delivery Platform, Govt. Kerala
Metrolla Steels Ltd, Moovatupuzha
Mary Matha Infra Structure, Moovattupuzha
Techshore Inspection Services
CAAD Centre

Social Commitments

- The only college in the district appointed as the Nodal Agency to study the social impact assessment of the development projects undertaken by government by the District Collector, Alappuzha.
- Approved consultants for Kerala PWD, LSGD & Rebuild Kerala. Exclusive Division for Consultancy projects.

mechanical
engineering

Mechanical engineering is a broad engineering discipline that incorporates skills and expertise in the areas of design, manufacturing, mechanics and thermal sciences that are essential to most sectors of industry. It is one of the engineering discipline which is most preferred by the engineering aspirants. Laboratories in the department are well equipped to facilitate the conduction of experiments prescribed in the curriculum and also to carry out the research work. The department is continuously organizing the industrial visits, seminars, technical talk and placement training for the benefits of the students.

career
opportunities

Production Engineer
Industrial Engineer
Design Engineer
Service Engineer
Quality Inspection Engineer

facilities

CNC Lab
CAD LabMechanical Engineering Workshop
Fluid Mechanics and Hydraulic Machines Lab
Heat Engines Lab
Thermal Engineering Lab
Dynamics of Machinery Lab
Machine Tool Lab
Metallurgy Lab
Metrology & Instrumentation Lab

add on
courses

- **CAD** using autocad
- **.** **CAD** using catia
- **CAD / CAM** using catia
- **CAD** using creo parametric
- **CAD / CAM** using creo parametric
- **CAD** using siemens nx
- **CAD / CAM** u sing siemens nx
- **QA/QC mechanical**
- **HVAC**
- **Solid works**
- **ANSYS**
- **Introduction to Mep industry**
- **Piping and pipeline engineering**

"

Completed my Bachelors in Mechanical Engineering from St. Thomas college of Engineering & Technology, Chengannur during 2011-2015. I can say that my scholar period at St. Thomas was one of the major milestones in shaping my career. Along with academics, they focuses on Personality development and conducting inter college technical festivals. The institution has provided me roots to follow my dreams and passions.

I would like to say that have faith in your abilities and do your work, success will be yours.

Krishnan Nampoothiri M
(2011 – 15 batch)
Sci/Eng-SC
URSC, ISRO

International
hackathon

An Indo – Malaysian Dekathon on Process and Product Design was conducted in the college from November 16th – 18th, 2022. The event was jointly organized by St.Thomas College of Engineering & Technology and Universiti Teknologi MARA (UiTM) Malaysia in association with APJ Abdul Kalam Technological University and Kerala Startup Mission. The event was a true pan India event with 75 teams from 7 different states participated. The winners received a cash prize of Rs.50,000/- along with an eight-day fully sponsored internship at UiTM Malaysia.

MOU / TIE UP

KELTRON
Kelachandra Machines
Techshore Inspection Services Cochin
METCON Muvattupuzha
Skill Delivery Platform, Govt. Kerala
CADD Centre
C & T Engineers
Icewind, Iceland

electrical and electronics engineering

Electrical & Electronics Engineering is an exciting and dynamic field that deals with the technology of electricity, especially the design and applications of circuitry and equipment for power generation and distribution, machine control and communications. Electrical and Electronics engineers enjoy a high demand service status in modern manufacturing and industrial processes. It imparts quality education in multifarious disciplines of Electrical, Electronics, Communication, Control Engineering etc, along with generation, transmission and distribution of electric power and a set of subjects especially focusing on the performance and design of DC, AC and Special Electric Machines.

career opportunities

Electrical Engineer
Electrical Control System Engineer
Power System Design Engineer
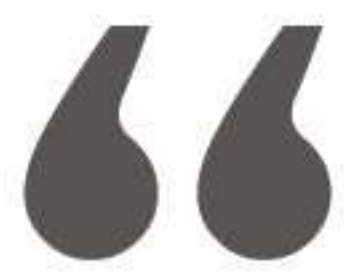Quality Control and Maintenance Engineer
MEP Engineer

facilities

Electrical Engineering Workshop
Electrical Machines Lab
Power System Simulation Lab
Electrical Measurements Lab
Project Lab
Power Electronics Lab
Systems and Control Lab

MOU / TIE UP

IEEE student chapter
KELTRON
Switchgear Industry
Skill Delivery Platform, Govt. Kerala

add on
courses

- PLC SCADA
- MATLAB
- ELECTRICAL QC & DESIGN
- ELECTRICAL CAD

EV Charging Station

" The highly motivated and experienced faculty combined with world class infrastructure helped me to become a complete engineering professional. The theoretical and practical knowledge gained from the college and exposure from the industrial visits paved the way to my success. The excellent training given by the training and placement department of STC made me to dream bigger and leverage my skills to enlighten my career.

Er. Roshan Sain
(2011 – 15 batch)
Electrical Engineer, Matsyafed
(Govt. of Kerala Undertaking)

" The institute offers a wide variety of courses and helps us to develop our technical skills. The efficient faculties and infrastructure help us to build a successful career. STC is a unique place for outstanding education, innovative experience, career support and memorable college days.

Vineeth.V
(2011 – 15 batch)
Senior Engineer - Schnieder

electronics and communication
engineering

The Department of ECE was established in the year 2010. The ultimate goal of our department is to produce professionals who are versatile in academics as well as the electronics industry. the department provides unique opportunities for aspiring students by offering an ambiance different from that of conventional methods and together facilitating exposure to the multi-research areas. We have state-of-the-art facilities that create new opportunities for research collaborations with institutions and industries. To flourish the knowledge level of faculties and young inquisitive mines, we concentrate more on the unique teaching-learning process of our department. The department implants several opportunities for aspiring students as they get trained in all aspects of academia as well as life skills that will help them succeed as they graduated from the university. Different pedagogy adopted by the department to groom the students towards the ever-changing landscape of technology to necessary skills required to enrich the professional practices.

career
opportunities

Telecommunications Engineer
System Design Engineer
Radar Engineer
Electronic Control System Engineer
Quality & Testing Engineer
Software Engineer
Network Engineer
System Administrator
System Analyst

facilities

Electronic Circuits Lab
Digital Electronics Lab
Communication System Lab
Microwave & Optical Lab
Microprocessor & Microcontroller Lab
Simulation Lab
Project Lab
IOT Lab

add on
courses

- **PCB manufacturing**
- **PLC SCADA training**
- **Electronic Product Design**
- **Embedded System Design &**
- **Simulation using MAT Lab**

clubs in
ece department

Technology Sharing Club
Electronics Hobby Club
Professional Connect Club
Journal Club
Robotics Club

MOU / TIE UP

KELTRON

CADD Centre

Skill Delivery Platform, Govt. Kerala

" I have graduated as an Electronics and Communication Engineer from STC in the year 2020. STC is a place with a lot of memories. Joining STC was a game-changer in my life. I was rejected from multiple colleges due to my low academic performance.

The teachers and management at STC played a key role in moulding me. They provided support in both academics and non academic activities. They helped a lot in self-development. All these helped me a lot for a smooth transition from what I was to what I am now.

My message to my juniors is that you have got everything required to mould yourself up in STC.
I wish all my juniors a bright future ahead.

Ivan Saji Abraham
(2016-20 batch)
System Analyst
Tata Consultancy Services.

computer science &
engineering

Computer Scientists and their creations are everywhere. They drive everything from search engines to daily weather reports, animation, cyber security and scientific discoveries, pushing developments that use and transform information. Software does every thing from dispensing medicine to controlling flight paths to monitoring and shaping our shopping habits. World's major companies, governments and organizations depend on smartly designed and well – built software and they rely on the expertise of skilled computer engineers to make it happen. As a software engineer, you apply engineering principles to systematically analyze, develop and improve software to ensure it runs effectively, safely and securely. Most modern IT systems are so complicated that teams of people must work together to create them. This collaborative learning gives you strong skills in team work, project management and communication,   highly sought – after in industry.

Realizing the importance of rapid advancement in the information technology sector, all the labs are equipped with the network structure and are updated and upgraded as per the requirement and demand of industries.

career
opportunities

Software Engineer
System Engineer
IT Manager
Software Developer
Network Administrator
Software Analyst
Database Administrator

facilities

Programming Lab
Hardware Lab
Microprocessor Lab
Software Lab
Application Software Development Lab
Network Programming Lab
Project Lab
Incubation Center
Entrepreneurship Development Center
Software Development Lab

add on
courses

Redhat Academy Courses
Android
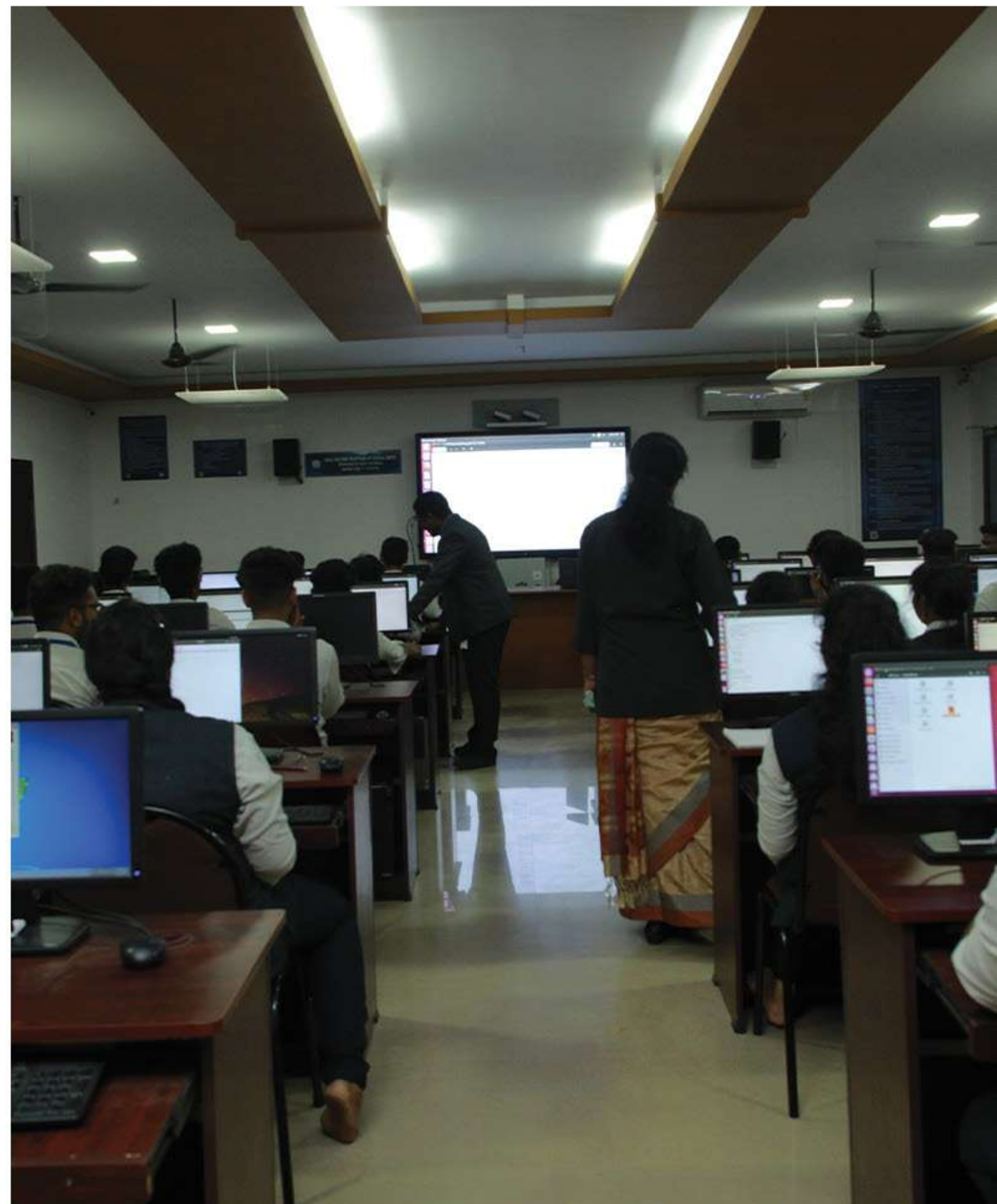Oracle Academy Courses
Artificial Intelligence

" Launching your career with an esteemed MNC like Infosys wasn't short of a dream come true and I would really like to dedicate a great part of my success to Department of Computer Science and Engineering, St. Thomas College of Engineering and Technology, Kozhuvalloor-Chengannur.

The staff and teachers are very passionate and show their genuine desire to help students to achieve their goals. The teaching and guidance here is just unparalleled. You get a lot of opportunities. Work hard to get it. Be prepared for everything. The placement cell is very supportive and they have conducted various sessions which helped me to get placed.

I'm grateful for being a part of STC and would like to express my heartfelt thanks to our department.

Ms. Rona Shaji
(2016-2020 Batch)
System Engineer - Infosys

MOU / TIE UP

Computer of India

KELTRON

ICFOSS

Kerala Startup Mission

Oracle Academy

Red Hat Academy

Skill Delivery Platform, Govt. Kerala

agriculture
engineering

The agriculture industry in India plays a significant role in the economy of India. B.Tech in Agriculture or Agricultural Engineering is a technical degree programme to create professionals who can meet the technological needs of the agriculture industry.

B.Tech in Agriculture can be considered as the combination of mechanical engineering, civil engineering as well as electrical engineering. The course is designed to help students understand the use and designing of farming equipment to perform the agricultural processes more efficiently. They also get to learn the building of agricultural infrastructure like warehouses, dams, reservoirs etc which are essential to improve the productivity of farmers.

The programme prepares students to get ready as professionals who have solution-driven minds to solve the problems associated with the farming process. The curriculum of the course is designed to help students understand the automation in the agriculture sector. It covers the optimisation techniques, technologies and mechanisation of farming.

career opportunities

Agriculture Research Scientist
Food Safety Applications Engineer
Soil and Plant Scientist
Conservation Scientist and Forester
Agriculture and Irrigation Engineer
Agriculture Field Officer (AFO)
Indian Forest Service- (IFS)

artificial intelligence & machine learning

Artificial Intelligence & Machine Learning is a bigger concept to create intelligent machines that can simulate human thinking capability and behavior, whereas, machine learning is an application or subset of Artificial Intelligence that allows machines to learn from data without being programmed explicitly. Intelligence, in the 21st century, has become the backbone of many thriving industries. It has become the core necessity for most of the companies around the world and is being widely used by most of them. The completion of the Artificial Intelligence and Machine Learning degree ensures the best of talent and inquisitive minds get hired by the companies looking for them.

Artificial Intelligence

career opportunities

Machine Learning Engineer
Data Scientist
Business Intelligence Developer
Research Scientist
Data Engineer
Machine Learning Architect

placements

The Training & Placement Cell is a dynamic body for guiding and counseling the students to provide learning opportunities in the areas of scholastic career and personality development. We believe in imbibing skills along with values in our students. The cell works under the leadership of a full time placement officer, supported by staff and student representatives. The training programmes for our students enable them to develop applicable skills in the competitive job market which facilitates in drawing out a right career path. The college has State-of-the-art facilities for conducting seminars and workshops. Well-furnished seminar halls with LED walls provide the right ambience for conducting campus recruitments. Some of the leading companies who have absorbed our students include Wipro, Infosys, US Technologies, HCL TCS, CTS, Omnex, NTAG. Sutherland, Alliance Corn Hill, Flipkart etc.

ANUPAM A B
- 6D Technologies — Smart Ideas, Delivered
- experion technologies
- HEXAWARE
- Poornam Info Vision
- TuringMinds.Ai
- Quest global
- SUTHERLAND

RIA S MATHEW
- Impaqtive
- Quest global
- VIRIMA
- Poornam Info Vision
- SUTHERLAND

KAVITHA PHILIP
- 6D Technologies — Smart Ideas, Delivered
- Poornam Info Vision
- Quest global
- MAVERIC
- SUTHERLAND

N NIHAL MUHAMMED
- TCS TATA CONSULTANCY SERVICES
- TuringMinds.Ai
- Poornam Info Vision
- SUTHERLAND

FAZIL S
- Impaqtive
- experion technologies
- Poornam Info Vision
- SUTHERLAND

JEFFY JOHN PANICKER
- TCS TATA CONSULTANCY SERVICES
- TuringMinds.Ai
- 7EDGE
- SUTHERLAND

SARAVAN SHIBU
- TCS TATA CONSULTANCY SERVICES
- TuringMinds.Ai
- SUTHERLAND

ROYS YOHANNAN BIJU
- Impaqtive
- Poornam Info Vision
- SUTHERLAND

AKASH S
- Quest global
- Poornam Info Vision
- SUTHERLAND

ALAN PREETH
- Quest global
- Poornam Info Vision
- SUTHERLAND

MOJIN THOMAS
- IntelliPaat
- Poornam Info Vision
- SUTHERLAND

TCS TATA CONSULTANCY SERVICES · Infosys · wipro · BYJU'S The Learning App · virtusa · Marymatha INFRASTRUCTURE PRIVATE LIMITED

Poornam Info Vision · VIRIMA · Impaqtive · 6D Technologies Smart Ideas, Delivered · Speridian TECHNOLOGIES · muthoot HOMEZ

Stanadyne · SUTHERLAND · TECH mahindra · HEXAWARE · IntelliPaat · experion technologies · Orion Innovation

FACE Prep · Quest global · TuringMinds.Ai · MAVERIC · 7EDGE · ibssoftware · EKK · VVDN TECHNOLOGIES

TCS TATA CONSULTANCY SERVICES

Quest global

VIRIMA

Impaqtive

FACE Prep

HEXAWARE

MAVERIC

IntelliPaat

TuringMinds.Ai

experion technologies

7EDGE

Poornam Info Vision

Stanadyne

6D Technologies Smart Ideas, Delivered
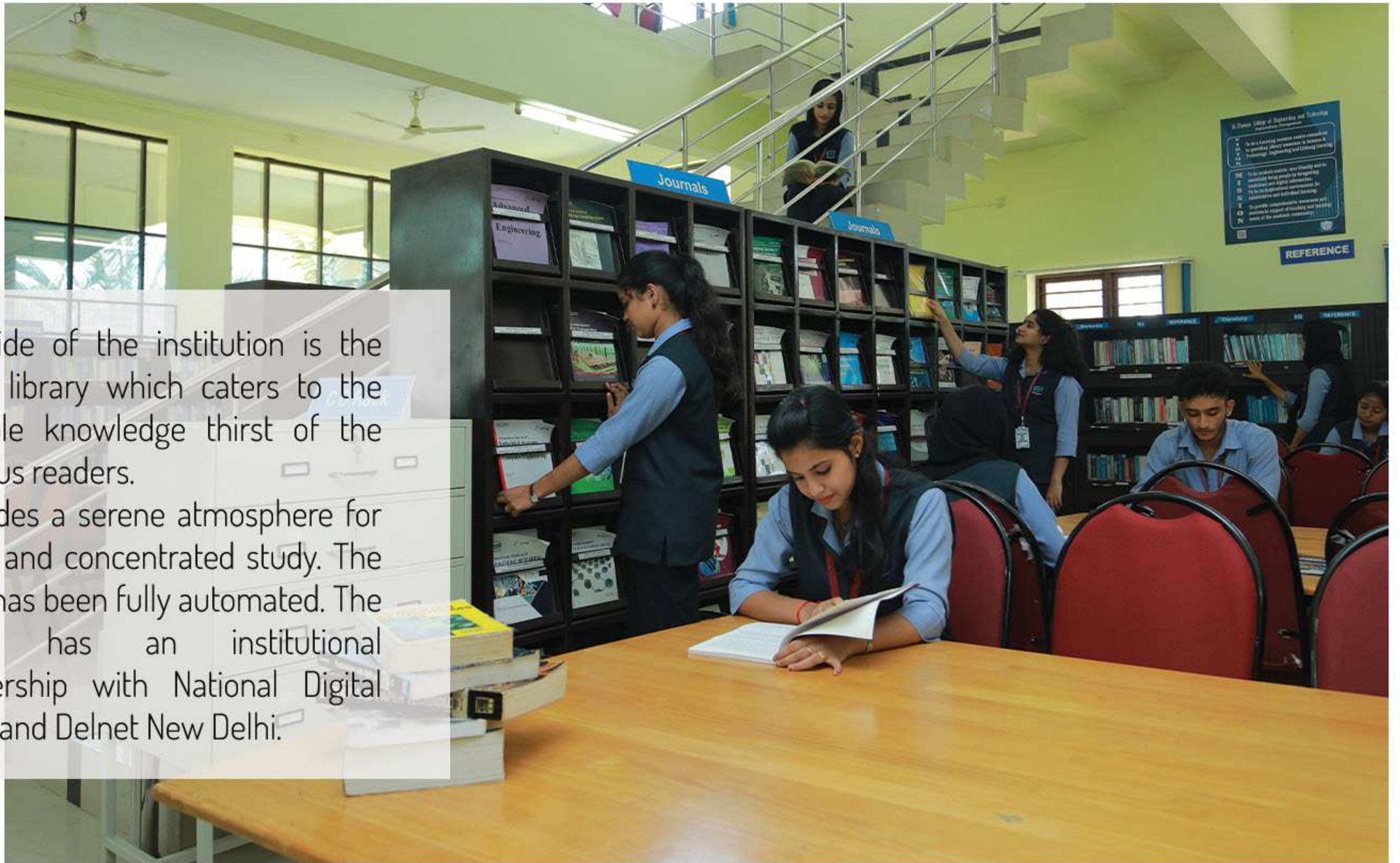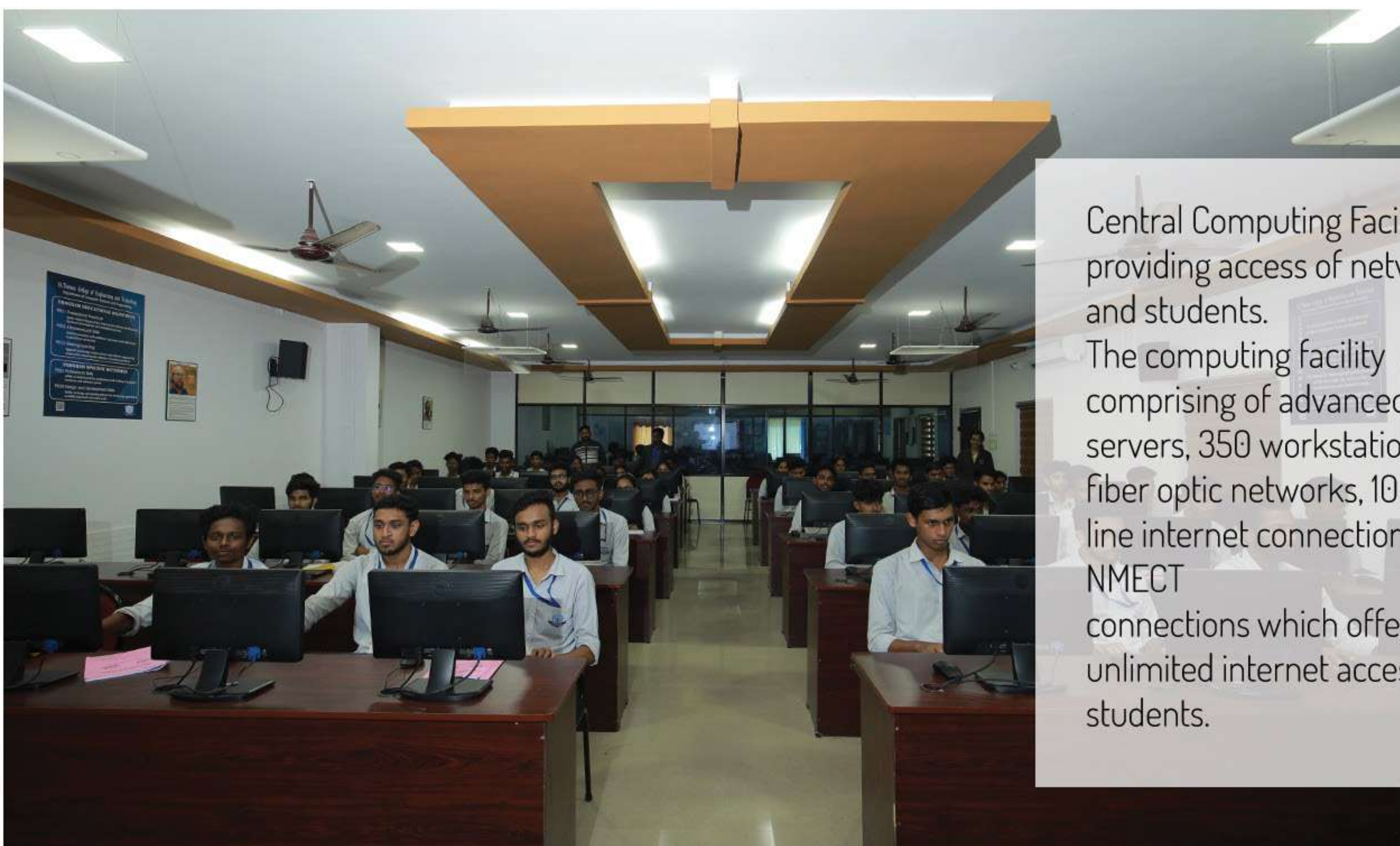
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PLACEMENT OFFERS FOR 2019 - 23 BATCH

facilities

The pride of the institution is the central library which caters to the insatiable knowledge thirst of the voracious readers.

It provides a serene atmosphere for deeper and concentrated study. The library has been fully automated. The college has an institutional membership with National Digital Library and Delnet New Delhi.

computing facility

Central Computing Facility is providing access of network to staff and students.

The computing facility comprising of advanced servers, 350 workstations, fiber optic networks, 100 Mbps leased line internet connection and 10 Mbps NMECT connections which offers unlimited internet access to staff and students.

amenities

- Facility for Entrepreneurship Development and Incubation
- Exclusive hostel facility for boys and girls.
- Multipurpose auditorium with seating capacity of 1500
- Air conditioned seminar halls
- Centralised canteen and food courts
- ATM facility within the campus
- Books and stationary store
- Medical facility available inside the campus and MOU with the nearby multi speciality hospital for immediate medical attention.

transport

A fleet of 12 college buses operating from major cities within a radius of 60 kms from the college provides convenient transport facility to staff and students.

Route no : 1 – Alappuzha – Changanacherry – Kavumbhagom – Chengannur – College
Route no : 2 – Harippad –Mavelikara – College
Route no : 3 – Kayamkulam – Chettikulangara – Thattarambalam – Mavelikara – College
Route no : 4 – Chavara – Karunagapally – Oachira – Charummood – College
Route No : 5 - Kottarakara – Enathu – Adoor – Pazhakulam – Edappon – College
Route No : 6 – Pathanapuram – Adoor – Pandalam – College
Route no : 7 – Pathanamthitta – Thumpamon – Pandalam – Kulanada – College
Route no : 8 – Ranni – Vazhakunnam – Kozhencherry - Aranmula – College
Route no : 9 – Mallapally – Kunnamthanam – Thiruvalla – Nellad - Othera –Chengannur– College
Route no : 10 – Edathua – Chakulathukavu – Podiyadi – Mannar – Mavelikara - College

campus life

RAPIDO – STC Sports Fest

RAPIDO is the annual sports meet of STC. Competitions are held in athletics events and conducted in two days. The event highlights the sportsman spirits of the students with technology in mind.

SPIKE – STC Games Fest

SPIKE is the two day games meet of STC. Competitions are held in popular games such as Cricket, Basketball, Volleyball, Football, Badminton, Kabbadi and Throw ball.

YVIDH – STC Tech Fest

YVIDH is the three day intercollegiate technical festival of STC organized in the campus which is one of the biggest technical festival in Kerala . It is an amalgamation of nearly 30 different events, testing the technical skill of the students. The festival provides a platform for students of different colleges to interact themselves by participating in the various technical competitions

VISMAYA – STC Arts Fest

VISMAYA is the annual arts festival of STC. The talents of students are exhibited in the festival and remains in the heart of students as the most memorable days in the Campus.

St. Thomas College
of Engineering & Technology

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