



AUTONOMOUS

St. Thomas College of Engineering & Technology

Kozhuvallur - Chengannur

AN ISO 9001:2008 Certified Institution
(Approved by AICTE - New Delhi, Govt of Kerala & Affiliated to APJ Abdul Kalam Technological University)

STCET FORTNIGHTLY e-BULLETIN

Vol.II | Issue 7 | 01 July 2026



PRINCIPAL'S MESSAGE

It gives me immense pleasure to present the latest edition of the STCET Fortnightly e-Bulletin, showcasing the vibrant academic, research, innovation, and student development activities of St. Thomas College of Engineering & Technology, Chengannur. This edition reflects our institution's unwavering commitment to excellence in education, research, innovation, and social responsibility.

I am particularly delighted by the remarkable achievement of our students from the Department of Electronics and Communication Engineering in developing SENS9 – Smart Anti-Dog Watch, an AI-enabled wearable safety device designed to protect people from stray dog attacks. The widespread media recognition received by this socially relevant innovation is a matter of immense pride for the entire STCET family and exemplifies how engineering can effectively address societal challenges. The Faculty Development Programmes on Large Language Models and Generative AI, Artificial Intelligence Tools for Innovative Teaching Pedagogy, Nanomaterials: Advanced Research Opportunities and Applications, and Design Thinking, Innovation and Entrepreneurship for Engineers have enriched the knowledge of faculty members and reinforced our vision of fostering innovation and future-ready education. I also congratulate our faculty and students for their notable achievements in intellectual property, including patent publications and grants from the Departments of Computer Science and Engineering, Civil Engineering, and Mechanical Engineering. These accomplishments reinforce STCET's growing research ecosystem and its focus on innovation-driven technological development. The expert lecture delivered by Dr. Teena Joseph at Bhavan's School, Pathanamthitta, and the recognition of Ms. Aleena Elizabeth Sabu as Regional Coordinator of Rudhirasena reflect the institution's active engagement with society through leadership and service.

I extend my heartfelt congratulations to all the semester toppers and achievers featured in this edition. May their accomplishments inspire every student to pursue excellence with dedication and integrity.

Dr. C. Sathish Kumar
Principal
- The Chief Editor

VISION

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

MISSION

- M1 : Develop, maintain and manage our campus for our stakeholders.
- M2 :Encourage our stakeholders to participate in lifelong learning through industry and academic interactions.
- M3 :Organize socially relevant outreach programs for the benefit of humanity.

Students Bring Laurels with Smart Anti-Dog Watch



A remarkable achievement that reflects the spirit of innovation and social responsibility at St. Thomas College of Engineering & Technology (STCET), Chengannur. Students of the Department of Electronics and Communication Engineering (ECE), Blesson Mathew Wilson, Binsen B., M. Praveen Kumar, Savio Joy, and Sreerag R. have developed an innovative wearable device, SENSK9 (Smart Anti-Dog Watch), an AI-enabled smart safety solution designed to protect people from stray dog attacks. The project has attracted widespread public attention and has been featured prominently in leading Malayalam newspapers, including Malayala Manorama, Madhyamam, Deshabhimani, and Deepika, bringing significant recognition to both the student innovators and the institution.

This Smart Anti-Dog Watch is a compact, wearable safety device that integrates Artificial Intelligence, embedded systems, acoustic signal processing, and sensor technology to identify aggressive barking patterns associated with potentially dangerous stray dogs. Upon detecting a threat, the device immediately alerts the wearer and emits carefully calibrated ultrasonic frequencies aimed at discouraging approaching dogs without causing them any harm. Designed to be lightweight, portable, and user-friendly, the device has the potential to enhance the safety of school children, senior citizens, morning walkers, delivery personnel, and the general public.



മലയാള മനോരമ



നായയെ തുരത്താൻ കഴിയുന്ന സ്മാർട്ട് ആന്റി ഡോഗ് വാച്ചുമായി ചെങ്ങന്നൂർ സെന്റ് തോമസ് എൻജിനീയറിങ് കോളേജ് വിദ്യാർത്ഥികൾ അധ്യാപകർക്കൊപ്പം.

നായയെ തുരത്തുന്ന വാച്ച് നിർമിച്ച് എൻജിനീയറിങ് വിദ്യാർത്ഥികൾ

▶▶ അൾട്രാസോണിക് ശബ്ദതരംഗങ്ങൾ പുറപ്പെടുവിച്ച് നായകളെ അകറ്റും

ചെങ്ങന്നൂർ • നായയെ പേടി ക്കാതെ വഴിനടക്കാൻ സ്മാർട്ട് ആന്റിഡോഗ് വാച്ചുമായി എൻജിനീയറിങ് വിദ്യാർത്ഥികൾ. വാച്ചിന്റെ തുറന്നുവെച്ച സെൻസർ കെ-9 (SENS-K9) എന്ന സ്മാർട്ട് സുരക്ഷാ ഉപകരണം അടിയന്തര സാഹചര്യങ്ങളിൽ ഒരു ബട്ടൺ അമർത്തുന്നതിലൂടെ പ്രവർത്തനം ക്ഷമമാകും.

തുടർന്ന് ഉയർന്ന ഫ്രീക്വൻസിയിലുള്ള അൾട്രാസോണിക് ശബ്ദതരംഗങ്ങൾ പുറപ്പെടുവിച്ച് ആക്രമണ സ്വഭാവമുള്ള നായകളെ സുരക്ഷിതമായ അകലത്തിലേക്ക് പിന്തിരിപ്പിക്കും. സെന്റ് തോമസ് കോളേജ് ഓഫ് എൻജിനീയറിങ് ആൻഡ് ടെക്നോളജിയിലെ അവസാന വർഷ ഇലക്ട്രോണിക്സ് ആൻഡ് കമ്പ്യൂട്ടിംഗ്

കോഴ്സ് എൻജിനീയറിങ് വിദ്യാർത്ഥികളാണു കണ്ടുപിടുത്തത്തിനു പിന്നിൽ. ബ്ലൈസ് മാത്യു വിൽസൺ, ബി.ബിൻസൺ, എം.പ്രവിൻ കുമാർ, സാവിത്രി ജോയ്, ആർ.ശ്രീരാഗ് എന്നിവർ ചേർന്നാണ് നിർമിച്ചത്.

വൈശേഷ്യ അലർച്ച്, എൽ ഇഡി സൂചന, റിയൽ-ടൈം ക്ലോക്ക് ഡിസ്‌പ്ലേ സൗകര്യങ്ങളും വാച്ചിൽ ഉണ്ട്. ഭാവിയിൽ ആർട്ടിഫിഷ്യൽ ഇൻ്റലിജൻസ് (AI) ഉപയോഗിച്ച് നായയെ സ്വയം തിരിച്ചറിയൽ, കുരയ്ക്കുന്ന ശബ്ദം വിശകലനം ചെയ്ത് ഓട്ടോമാറ്റിക് ആക്ടിവേഷൻ, ജിപിഎസ് ലൊക്കേഷൻ ഷെയറിങ് തുടങ്ങിയ സവിശേഷതകളും വാച്ചിൽ ഉൾപ്പെടുത്താൻ വിദ്യാർത്ഥികൾ ശ്രമിക്കുന്നുണ്ട്. ഇതിനകം ഇന്ത്യൻ



സ്മാർട്ട് ആന്റി ഡോഗ് വാച്ച്

പേറ്റന്റും നേടിയ ഇവർ വകുപ്പ് മേധാവി ഡോ.കിന്റു മേരി ജോണിന്റെ മാർഗനിർദ്ദേശത്തിലാണ് പ്രോജക്ട് പൂർത്തിയാക്കിയത്.

02/07/2026 | Alappuzha | Page : 2
Source : <https://epaper.manoramaonline.com/>

The project was developed by the final-year ECE student team under the guidance of their faculty mentors, demonstrating exceptional technical competence, creativity, and a commitment to addressing pressing societal challenges through engineering innovation. By combining artificial intelligence with practical embedded system design, the team has created a solution that is both technologically advanced and socially relevant.

The innovation has received widespread appreciation from the college management, faculty members, academic community, and the media for its originality and potential impact. The extensive media coverage further highlights STCET's growing reputation as a centre of excellence in research, innovation, and student-led technological development.

This outstanding achievement stands as a proud milestone in the college's journey of promoting interdisciplinary research, nurturing entrepreneurial thinking, and encouraging students to develop technology-driven solutions that address real-world challenges. The success of the SENS-K9 Smart Anti-Dog Watch reaffirms STCET's commitment to academic excellence, innovation, and meaningful contributions to society.

FACULTY DEVELOPMENT PROGRAMS

Large Language Models and Generative AI: Empowering Faculty with Next-Generation AI Expertise

PATRONS

Dr. Jose Thomas
St. Thomas College of Engineering & Technology, Chengannur

Dr. C. Sathish Kumar
Principal
St. Thomas College of Engineering & Technology, Chengannur

Dr. Manoj Kumar B
Dean, Academic
St. Thomas College of Engineering & Technology, Chengannur

COORDINATOR
Dr. Teena Joseph
Professor & Head
Dept. of CSE (2024-2025)

CO-COORDINATOR
Dr. Renisha P Salim
Head, CSE
Dept. of CSE (2024-2025)

ORGANIZING COMMITTEE

Prof. Anand V J
Dept. of CSE (2024-2025)

Prof. Indiga I
Dept. of CSE (2024-2025)

Prof. Rajana Rahman
Dept. of CSE (2024-2025)

Prof. Harsha Poulagan
Dept. of CSE (2024-2025)

Prof. Nitya T Dev
Dept. of CSE (2024-2025)

Prof. Anish George
Dept. of CSE (2024-2025)

ABOUT THE INSTITUTION

St. Thomas College of Engineering & Technology (STCET), Chengannur, Assam, established in the academic year 2002, is a premier engineering institution approved by All India Council for Technical Education (AICTE), New Delhi & affiliated with Anna University, Chennai. The institution has won national excellence awards, making a significant reference in its journey towards academic excellence, innovation & quality education. The college is committed to delivering world-class education through modern infrastructure, experienced faculty, advanced laboratories & a student-centric learning experience.

ABOUT THE DEPARTMENT

The Department of Computer Science & Engineering (Artificial Intelligence & Machine Learning) was established in the year 2023 with a primary objective of offering value-added educational experiences which enable graduates to compete for a wide range of career opportunities in modern world. The Department is catering to the needs of modern engineers in one of the most & engineering fields that emphasizes the fundamental concepts of AI/ML. The Department regularly conducts various training programmes, faculty development programmes, workshops & conferences in various specialized fields. The infrastructure & lab facilities are continuously updated to provide adequate opportunities for the students to excel in their most projects & report works. The faculty members strive to enhance their critical thinking & real-time problem-solving skills in academics through well-organized teaching-learning approach. They spare practical exposure by working in various projects & hackathons.

REGISTRATION DETAILS

Registration Deadline: 18/06/2026
Registration Link: <https://forms.gle/2PFWG1XK2JAK6>

Registration Fee: 00

5 DAY ONLINE FACULTY DEVELOPMENT PROGRAM

OR

LARGE LANGUAGE MODELS & GENERATIVE AI EMPOWERING FACULTY WITH NEXT-GENERATION AI EXPERTISE

Organized By:
Dept of Computer Science & Engineering
(Artificial Intelligence & Machine Learning)

22/06/2026 to 26/06/2026
10 AM to 12 Noon

VISION

INSTITUTE VISION
To be an institution of repute recognized for excellence in education, innovation and social contribution.

DEPARTMENT VISION
To excel in technical competencies and social commitment within the domain of Computer Science, with a focus on Computational Intelligence.

MISSION

INSTITUTE MISSION
NI: Intellectual Refinement
NI: Academic excellence, research, innovation and social contribution
NI: Life-long Learning
NI: Encourage students to participate in lifelong learning through industry and academic collaborations
NI: Social Commitment
NI: Develop socially relevant research programs for the benefit of humanity

DEPARTMENT MISSION
DI: Develop students with theoretical foundations and technical proficiency in the fields of Intelligent Automation
DI: Nurture a passion for lifelong learning through association with industry and institutions of national and international importance
DI: Institute a sense of moral and societal obligation to ensure human welfare

TARGETED AUDIENCE

- Faculty Members
- Research Scholars
- Industry Professionals
- All Students

OBJECTIVE OF FDP

The FDP aims to:

- To provide participants with a solid theoretical foundation in foundation-based LLM architectures.
- To familiarize faculty with state-of-the-art generative AI tools including Huggingface, OpenAI GPT and Langchain.
- To enable faculty on competency in prompt engineering, fine-tuning, and Retrieval-Augmented Generation (RAG).
- To explore the integration of LLM-powered tools into academic teaching, curriculum design, and research activities.
- To address ethical considerations, limitations, and responsible deployment of generative AI systems.
- To engage interdisciplinary research collaboration leveraging generative AI technologies.

OUTCOME OF FDP

- Explore the architecture and functioning of transformer-based LLMs and GPT.
- Use OpenAI, Huggingface, and Langchain APIs to build and prototype AI applications.
- Design effective prompts and implement RAG pipelines for domain-specific tasks.
- Evaluate the ethical implications and limitations of generative AI models.
- Integrate LLM-based tools into academic course delivery and research projects.
- Identify potential research problems and funding opportunities in the generative AI technology.

RESOURCE PERSONS

DAY 1

Dr. Subramaniam P.
Interdisciplinary Chief Scientist,
TCS Research (India.)

DAY 2

Dr. Shashank Srivastava
Chief Technical Architect,
Tencent Zame and Data,
Eurasia

DAY 3

Mr. Rahul Krishna M
Global IT Business Manager,
Thrivantechapam
Generative AI for Data

DAY 4

Dr. Sivapack T V
Associate Professor
Dept. of AI & Data Science,
Chennai Engineering
Thrivantechapam

DAY 5

Dr. Neelima P S
Associate Professor
Dept. of AI & Data Science,
Chennai Engineering
Thrivantechapam

Thank you for your cooperation.

The Department of Computer Science and Engineering (Artificial Intelligence & Machine Learning), St. Thomas College of Engineering and Technology (STCET), Chengannur, successfully organized a 5-Day Online Faculty Development Programme (FDP) on "Large Language Models and Generative AI: Empowering Faculty with Next-Generation AI Expertise" from 22nd to 26th June 2026, conducted daily from 10:00 AM to 12:00 Noon. The programme was organized with the objective of equipping educators, researchers, and professionals with the knowledge and practical skills required to effectively utilize the latest advancements in Artificial Intelligence, particularly Large Language Models (LLMs) and Generative AI technologies.

The primary objective of the FDP was to provide participants with a strong theoretical foundation and practical exposure to generative AI technologies while enabling them to integrate AI-driven tools into teaching, curriculum development, research, and professional practice. Participants also gained valuable insights into ethical considerations, limitations, and best practices associated with the use of AI systems. The programme encouraged interdisciplinary collaboration and inspired educators to adopt innovative teaching methodologies powered by artificial intelligence.

The programme was coordinated by Dr. Teena Joseph, with Dr. Renisha P. Salim serving as the Co-Coordinator, under the guidance of the Department of Computer Science and Engineering (AI & ML). Faculty members, research scholars, postgraduate students, and industry professionals from various institutions actively participated in the programme, making it an engaging and collaborative learning experience.

Artificial Intelligence Tools for Innovative Teaching Pedagogy

PATRONS
Er. Jose Thomas
Secretary
St. Thomas College of Engg. & Tech,
Chengannur, Kottayam

Dr. C. Sathish Kumar
Principal,
St. Thomas College of Engg. & Tech,
Chengannur, Kottayam

Dr. Manjith Kumar B
Dean (Academics)
St. Thomas College of Engg. & Tech,
Chengannur, Kottayam

CONVENOR
Dr. Bibin Vincent
Professor and HOD, Department of CSE

COORDINATOR
Prof. Juby Raju
Associate Professor, Department of CSE

CO-COORDINATORS
Prof. Aswathy R., Prof. Santhymol T
Assistant Professors, Department of CSE

ORGANIZING COMMITTEE
Prof. Jayanthi V.R., Asst. Professor, CSE
Prof. Almya Karmoon, Asst. Professor, CSE
Prof. Mahesh K., Asst. Professor, CSE
Prof. Nandha Philip, Asst. Professor, CSE
Prof. Gireesh Mathan, Asst. Professor, CSE
Prof. Jisha Kurian, Asst. Professor, CSE
Prof. Anjali Vijayaraj, Asst. Professor, CSE
Prof. Teresa M Thomas, Asst. Professor, CSE
Prof. Prudhvi G., Asst. Professor, CSE

CONTACT DETAILS
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Prof. Aswathy R.
9395960763 | aswathy@stthomascollege.ac.in

ABOUT THE INSTITUTION
St. Thomas College of Engineering & Technology (STCET), Chengannur, Kottayam, established in the academic year 2013-2014, is a premier engineering institute approved by the All India Council for Technical Education (AICTE), New Delhi, and affiliated with APJ Abdul Kalam Technological University. The college is committed to delivering world-class education and is ISO certified (ISO 9001:2008) since 2011. It has also been accredited by NAAC in 2024. STCET is renowned for its academic excellence and state-of-the-art research facilities. STCET has been conferred autonomy by UGC, marking a significant milestone in its academic excellence and research opportunities.

ABOUT THE DEPARTMENT
The CSE Department is committed to the development of top-class technical manpower which can help the Indian industry in attaining excellence and also ensuring a reputation of being a dependable source of technical knowledge. With well-equipped laboratory facilities, the department is providing value-based training and skills needed for the students in the software industry. The Department is staffed by the right proportion of senior and experienced professors on one hand and young and vibrant juniors on other. The department has grown over the years in all aspects and kept abreast with the defining changes, and has been continuously nurturing the curriculum to impart up to date and professionally relevant education to the aspiring students. Presently, the department is offering undergraduate program B.Tech (Computer Science and Engineering) and the program is accredited by the NBA since 2022.

REGISTRATION DETAILS
Last date of Registration: 18th/June
Registration fee: Rs. 2500/-
Registration link: <https://forms.gle/9mKv3v3v3v3v3v3v>
QR Code: [QR Code]
Phone: 9447178608
Email: aswathy@stthomascollege.ac.in

5 DAYS ONLINE FACULTY DEVELOPMENT PROGRAMME ON Artificial Intelligence Tools for Innovative Teaching Pedagogy
Organized By
DEPT. OF COMPUTER SCIENCE & ENGINEERING
June 22-26, 2026
1:30 PM - 3:00 PM
NBA | ISO
AUTONOMOUS

VISION
Institution Vision
To be an Institute of repute recognized for excellence in education, innovation and social contribution.

Department Vision
To create industry ready and socially skilled Computer Science Engineers

MISSION
Institution Mission
M1: Infrastructure 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.

Department Mission
M1: Provide a learning platform that encourages thinking and analytical ability in the area of computer software and hardware.
M2: Incubate and foster professional skills through the interaction of academics and industry.
M3: Engage with society through social programs in and out of campus.

TARGETED AUDIENCE
Faculty Members
Research Scholars
Industry Professionals
PG Students

OBJECTIVES
This Five-Day National-Level Online Faculty Development Programme aims to empower faculty members with the knowledge and practical skills required to effectively integrate Artificial Intelligence tools into their teaching and research practices. The programme works to introduce participants to the foundational concepts of AI in higher education, enable them to design AI-enhanced lesson plans and course content, and modernize assessment strategies through adaptive and personalized learning approaches. It further aims to build competency in using AI tools for academic research, writing, and citation management while fostering a strong sense of ethical responsibility in their use. Through hands-on practice sessions and expert-led discussions, the programme endeavours to empower faculty to become active contributors in building AI-ready academic departments, ultimately transforming the quality and innovation of teaching pedagogy at the national level.

TOPICS TO BE COVERED
Artificial Intelligence (AI) Tools for Pedagogical Enhancement in Higher Education
Designing AI-Enhanced Lesson Plans, Course Content & Visual Presentations
AI-Powered Assessment Design: Quizzes, Rubrics, Feedback & Adaptive Learning
AI Tools for Research, Writing, Citation Management & Ethical Use in Academia
Hands-on AI Tool Practice & Readiness to Building an AI-Ready Department

RESOURCE PERSONS
Day - 1
Topic: AI Tools for Pedagogical Enhancement in Higher Education
Speaker: Dr. Mahesh K.R., Principal, LBS Institute of Technology for Women, Thrissur

Day - 2
Topic: AI-Enhanced Lesson Plans, Course Content & Visual Presentations
Speaker: Prof. Jisha Kurian, Assistant Professor, St. Thomas College of Engineering, Chengannur

Day - 3
Topic: AI-Powered Assessment Design: Quizzes, Rubrics & Feedback
Speaker: Dr. Mahesh K.R., Principal, LBS Institute of Technology for Women, Thrissur

Day - 4
Topic: AI Tools for Research, Writing, Citation & Ethical Use in Academia
Speaker: Dr. Bibin Kumar B, Assistant Professor, Rajarajeshwari Institute of Technology, Kottayam

Day - 5
Topic: Hands-on AI Tool Practice & Readiness to Building an AI-Ready Department
Speaker: Dr. Bibin Kandaswamy T, Associate Professor of CSE, St. Thomas College of Engineering and Technology, Kottayam

The Department of Computer Science and Engineering, St. Thomas College of Engineering and Technology (STCET), Chengannur, successfully organized a Five-Day National-Level Online Faculty Development Programme (FDP) on "Artificial Intelligence Tools for Innovative Teaching Pedagogy" from 22nd to 26th June 2026, with sessions conducted daily from 1:30 PM to 3:00 PM. The programme was designed to empower faculty members, researchers, industry professionals, and postgraduate students with practical knowledge of Artificial Intelligence (AI) tools that can significantly enhance teaching, learning, assessment, and academic research.

A major highlight of the programme was its practical orientation, where participants experienced live demonstrations of various AI-based educational tools and learned how these technologies can be effectively used to create engaging learning materials, generate interactive content, automate routine academic tasks, and personalize student learning experiences. The sessions encouraged active discussions on the opportunities and challenges associated with AI adoption in higher education, preparing educators to confidently embrace digital transformation in their institutions. The Faculty Development Programme was convened by Dr. Bibin Vincent, Professor and Head of the Department of Computer Science and Engineering. The programme was coordinated by Prof. Juby Raju, Associate Professor, with Prof. Aswathy R. and Prof. Santhymol T. serving as Co-Coordinators. The organizing committee ensured the smooth conduct of the programme, which witnessed enthusiastic participation from faculty members, research scholars, industry professionals, and postgraduate students from various institutions across the country.

Nanomaterials – Advanced Research Opportunities and Applications

PATRONS
Er. Jose Thomas
Secretary & CEO
St. Thomas College of Engg. & Tech.
Chengannur, Alappuzha District.

Dr. C. Sathish Kumar
Principal
St. Thomas College of Engg. & Tech.
Chengannur, Alappuzha District.

Dr. Manjith Kumar B
Dean (Academic)
St. Thomas College of Engg. & Tech.
Chengannur, Alappuzha District.

CONVENOR
Prof. Rani M. Kurup,
Assistant Professor & HOD,
Department of Basic Science & Humanities
STCET, Chengannur, Alappuzha District.

COORDINATOR
Prof. Filson P. Rajan
Assistant Professor
Department of Basic Science & Humanities
STCET, Chengannur, Alappuzha District.

CO-COORDINATOR
Prof. Sinu T., Prof. Aditya K. S.
Assistant Professors
Department of Basic Science & Humanities
STCET, Chengannur, Alappuzha District.

ORGANIZING COMMITTEE
Prof. Sreeja V Pillai, Dept. of BS & HS
Prof. Sam S. Suresh, Dept. of BS & HS
Prof. Jaya Kila Jay, Dept. of BS & HS
Prof. Tanya Babu, Dept. of BS & HS
Prof. Priyanka P, Dept. of BS & HS

ABOUT INSTITUTION
St. Thomas College of Engineering & Technology (STCET), Chengannur, Alappuzha District established in the academic year 2010-2011, is a premier engineering institute approved by the All India Council for Technical Education (AICTE), New Delhi, and affiliated with APJ Abdul Kalam Technological University. The institution has now attained Autonomous Status, marking a significant milestone in its journey towards academic excellence, innovation & quality education. The college is committed to delivering world class education through modern infrastructure, experienced faculty, advanced laboratories & a student-centric learning experience.

ABOUT DEPARTMENT
The Department of Basic Science and Humanities plays a vital role in shaping the academic and ethical foundation of aspiring engineers by offering quality education in Physics, Chemistry, Mathematics, Communication, and Social Science subjects like Ethics, Economics, Management, and Constitution of India. With a dedicated team of experienced and young faculty, the department fosters critical thinking, creativity, and communication skills. By promoting interdisciplinary learning and regularly updating its curriculum, the department ensures holistic development, aiming to produce not just skilled engineers but socially responsible professionals.

CONTACT DETAILS
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Prof. Aditya K. S.
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5 DAYS ONLINE FACULTY DEVELOPMENT PROGRAMME ON
NANOMATERIALS – ADVANCED RESEARCH OPPORTUNITIES & APPLICATIONS
Organized by
DEPT. OF BASIC SCIENCE & HUMANITIES
June 29 – July 03, 2026
02.30 pm to 04.00 pm

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

MISSION
Institution Mission
M1: Develop, maintain and manage our campus for our stakeholders
M2: Encourage our stakeholders to participate in lifelong learning through industry and academic interactions
M3: Organize socially relevant outreach programs for the benefit of humanity

TARGETED AUDIENCE
• Faculty Members
• Research Scholars
• Industry Professionals
• PG Students

OBJECTIVES
The Faculty Development Programme aims to provide participants with a strong foundation in nanomaterials, their characterization, and emerging applications. It focuses on recent advancements, advanced research opportunities, and interdisciplinary collaborations in nanotechnology. The programme also seeks to bridge the gap between academic research and industrial applications while promoting innovation and sustainable technological development.

TOPICS TO BE COVERED
1. Introduction to Nanomaterials and Characterization Techniques
2. Engineering Nanomaterials for Next-Generation Sustainable Energy Systems
3. Ultrasonication Assisted Exfoliation of Two-Dimensional Nanomaterials: Characterization and Predictive Modelling
4. Nano Sensors for Biomedical applications
5. Advanced Research Opportunities in Nanomaterials

REGISTRATION DETAILS
Last date (Registration): 28-06-2026
Duration: 29-06-2026 to 03-07-2026(5 Days)
Registration Link : FDP 2026- Nano Materials- Advanced Research Opportunities and Applications (STC-BSS)
<https://forms.gle/R7pE7TF7FICMh4pDK8>
Registration Fee : 200/-

RESOURCE PERSONS
DAY 1
1. Dr. SONTY VARGHESE
Professor,
Nanomaterials and
Devices Research Laboratory
Materials Science and
Engineering
National Institute of Technology
Calicut, India
DAY 2
Dr. N. PONPANDIAN
Professor
Department of Nanoscience and
Technology & Former Controller
of Examinations
Bharathiar University, Coimbatore.
DAY 3
Dr. JERRIN JOY VARGHESE
Assistant Professor
Department of Mechanical
Engineering
Dayananda Sagar University
DAY 4
Dr. REMYA JAYACHANDRAN
Assistant Professor
Department of Electronics and
Communication Engineering
Mysore Institute of Engineering,
Mysore
DAY 5
Dr. SATYENDRA NATH GUPTA
Associate Professor
Atomic, Molecular and Optical
Physics Division of Physical
Research Laboratory
Allahabad

The Department of Basic Science and Humanities, St. Thomas College of Engineering and Technology (STCET), Chengannur, successfully organized a Five-Day Online Faculty Development Programme (FDP) on "Nanomaterials – Advanced Research Opportunities and Applications" from 29th June to 3rd July 2026, with sessions conducted daily from 2:30 PM to 4:00 PM. The programme was designed to provide faculty members, research scholars, postgraduate students, and industry professionals with an in-depth understanding of the rapidly evolving field of nanomaterials and their transformative role in science, engineering, healthcare, and sustainable technologies.

The programme featured eminent researchers and academicians from premier institutions across India, who shared their expertise on various advanced topics in nanoscience and nanotechnology. The technical sessions covered Introduction to Nanomaterials and Characterization Techniques, Engineering Nanomaterials for Next-Generation Sustainable Energy Systems, Ultrasonication-Assisted Exfoliation of Two-Dimensional Nanomaterials: Characterization and Predictive Modelling, Nanosensors for Biomedical Applications, and Advanced Research Opportunities in Nanomaterials.

The Faculty Development Programme was convened by Prof. Rani M. Kurup, Assistant Professor and Head of the Department of Basic Science and Humanities. The programme was coordinated by Prof. Filson P. Rajan, Assistant Professor, with Prof. Sinu T. and Prof. Aditya K. S. serving as Co-Coordinators. The dedicated efforts of the organizing committee ensured the successful execution of the programme, which witnessed enthusiastic participation from faculty members, research scholars, postgraduate students, and industry professionals from institutions across the country.

Design Thinking, Innovation & Entrepreneurship for Engineers

The Department of Mechanical Engineering, in association with the Innovation and Entrepreneurship Development Centre (IEDC), St. Thomas College of Engineering and Technology (STCET), Chengannur, is organizing a Five-Day Online Faculty Development Programme (FDP) on "Design Thinking, Innovation & Entrepreneurship for Engineers" from 6th to 10th July 2026, with sessions scheduled from 7:00 PM to 8:30 PM. The programme is designed to provide faculty members, researchers, postgraduate students, industry professionals, and aspiring innovators with a comprehensive understanding of design thinking, innovation methodologies, and entrepreneurial practices.

The five-day programme will feature eminent academicians, innovators, entrepreneurs, and industry experts who will share their experiences and insights on the latest developments in innovation and entrepreneurship. Participants will be introduced to the principles of design thinking, user-centric problem solving, creative ideation, product development, rapid prototyping, intellectual property rights, patent filing, startup ecosystems, and technology commercialization. The sessions will be handled by distinguished resource persons from premier academic institutions, research organizations, and the startup ecosystem. Key topics include Creativity and Innovation in Engineering, Design Thinking Process and Product Development, Prototyping and Product Validation, Entrepreneurship and Startup Ecosystem, and Intellectual Property Rights, Patent Filing, and Technology Transfer.

The programme is convened by Dr. S. Sarath, Professor and Head of the Department of Mechanical Engineering, and coordinated by Prof. Vishal Raman, Assistant Professor, with the support of the faculty members of the department and the organizing committee. The FDP is expected to attract enthusiastic participation from faculty members, research scholars, postgraduate students, industry professionals, and aspiring entrepreneurs from institutions across the country.

PATENT PUBLICATIONS

COMPUTER SCIENCE AND ENGINEERING

St. Thomas College of Engineering & Technology
CHENGANNUR, ALAPPUZHA
AUTONOMOUS

PATENT PUBLISHED!

We are proud to announce that our faculty members from the Department of Computer Science and Engineering have published an Indian Patent.

FACULTY INVENTORS

Prof. Jissin Kurien
Assistant Professor
CSE

Prof. Shyma Kareem
Associate Professor
CSE

Prof. Teena M Thomas
Assistant Professor
CSE

PATENT TITLE

Adaptive federated machine learning system for real-time anomaly detection and threat mitigation in industrial IoT networks

PUBLICATION NO. IN202641064966 A1
PUBLICATION DATE 05-06-2026
JOURNAL NO. 23/2026
PUBLISHED IN OFFICIAL JOURNAL OF THE PATENT OFFICE, GOVERNMENT OF INDIA

Heartiest Congratulations
to our esteemed faculty inventors for their outstanding innovation and valuable contribution to research and development.

INNOVATE. INSPIRE. IMPACT.

www.stthomascollege.ac.in

St. Thomas College of Engineering and Technology (STCET), Chengannur, proudly celebrates the publication of two Indian patents by faculty members of the Department of Computer Science and Engineering (CSE), marking another milestone in the institution's pursuit of research excellence and innovation.

The first patent, "Adaptive Federated Machine Learning System for Real-Time Anomaly Detection and Threat Mitigation in Industrial IoT Networks," was developed by Prof. Jissin Kurien, Prof. Shyma Kareem, and Prof. Teena M. Thomas.

The second patent, "AI-Enabled Image-Based Quality Inspection System with Adaptive Optical Capture and Real-Time Defect Classification," was developed by Prof. Mahesh S., Prof. Arathy Vijayan, Prof. Rejeenth V. R., and Prof. Geethu Mohan. Both patents were published in the Official Journal of the Patent Office, Government of India, on 5 June 2026.

These achievements reflect the faculty's commitment to innovation, research, and intellectual property creation. The college congratulates the faculty inventors and wishes them continued success in their future endeavors.

St. Thomas College of Engineering & Technology
CHENGANNUR, ALAPPUZHA
AUTONOMOUS

PATENT PUBLISHED!

We are proud to announce that our faculty members from the Department of Computer Science and Engineering have published an Indian Patent.

FACULTY INVENTORS

Prof. Mahesh S
Assistant Professor
CSE

Prof. Arathy Vijayan
Assistant Professor
CSE

Prof. Rejeenth V R
Associate Professor
CSE

Prof. Geethu Mohan
Assistant Professor
CSE

PATENT TITLE

Ai-enabled image-based quality inspection system with adaptive optical capture and real time defect classification

PUBLICATION NO. IN202641064966 A1
PUBLICATION DATE 05-06-2026
JOURNAL NO. 23/2026
PUBLISHED IN OFFICIAL JOURNAL OF THE PATENT OFFICE, GOVERNMENT OF INDIA

Hearty congratulations to our esteemed faculty inventors for their remarkable innovation and contribution to research and development.

INNOVATING TODAY, INSPIRING TOMORROW

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CIVIL ENGINEERING

St. Thomas College of Engineering & Technology
KODHUVALLUR P.O., CHENGANNUR, ALAPPUZA DIST. 689 521

NAAC | NEA | ISO
AUTONOMOUS

DEPARTMENT OF CIVIL ENGINEERING

Proud Moment. Shared Achievement.

PATENT PUBLISHED!

We are proud to share that our innovation has been officially published by the Intellectual Property Office, India.

PUBLICATION NO.
IN202641058319 A1

PUBLICATION DATE
05 June 2026

INVENTION TITLE
Glulam timber composite beams for sustainable structural applications and a method of manufacture thereof

INVENTORS

- ★ Prof. Joan Mary Jojo
Assistant Professor
Dept of Civil Engineering
St. Thomas College of Engineering & Technology
- ★ Dr. Praveen Nagarajan
Professor
Dept of Civil Engineering
NIT Calicut

Heartfelt Thanks to NIT CALICUT
We extend our sincere gratitude to NIT Calicut for their invaluable guidance, support and continuous encouragement throughout this journey.

Innovation Rooted in Nature. Engineered for a Sustainable Future.

Grateful to our mentors, collaborators and the STCET family for the constant support and encouragement.

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The Department of Civil Engineering, St. Thomas College of Engineering and Technology (STCET), Chengannur, has added another milestone to its research journey with the publication of an Indian Patent and the grant of a Design Patent, reflecting the department's commitment to innovation and sustainable engineering solutions.

The department's Indian patent, titled "Glulam Timber Composite Beams for Sustainable Structural Applications and a Method of Manufacture Thereof," was published in the Official Journal of the Patent Office, Government of India, on 5 June 2026 (Publication No. IN202641058319 A1). The invention was developed by Prof. Joan Mary Jojo, Assistant Professor, Department of Civil Engineering, STCET, in collaboration with Dr. Praveen Nagarajan, Professor, NIT Calicut.

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Innovation Recognised. Future Strengthened.

DESIGN PATENT GRANTED!

★ A RECOGNISED INNOVATION, A STEP TOWARDS A BETTER FUTURE. ★

We are proud to announce that our innovation has been granted **Design Patent** by The Patent Office, Government of India.

DESIGN NO.
480421-001

DATE OF FILING
15 November 2025

DATE OF GRANT
08 January 2026

INVENTORS

1. Dr. S. Sivasankar
2. Dr. Basanth Babu K. Mohanram
3. Dr. John Robert Prince M
4. Dr. Germin Nisha M

INNOVATIVE SOLUTION | **AI POWERED TECHNOLOGY** | **DETECTS CONSTRUCTION FAILURES** | **SAFETY TODAY, STRONGER TOMORROW**

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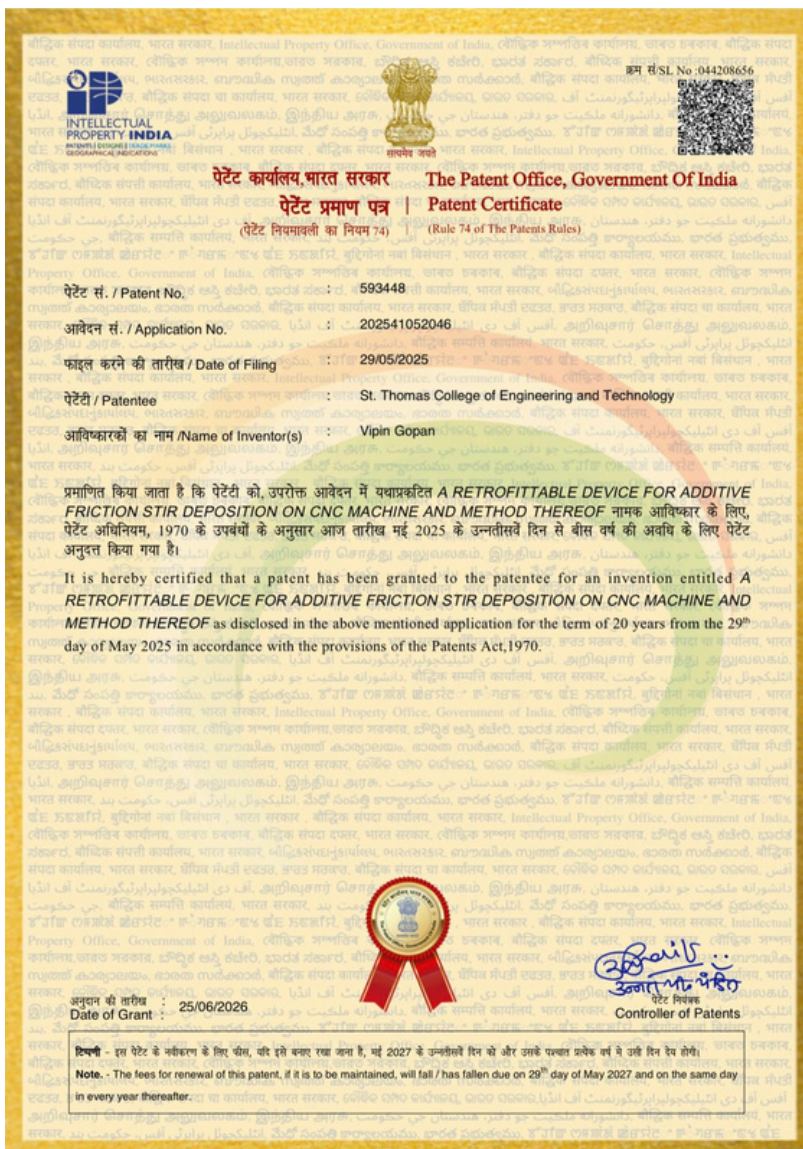
Further strengthening its innovation portfolio, the department also secured a Design Patent for an "AI-Based Device to Detect Construction Failure," granted by the Patent Office, Government of India, on 8 January 2026 (Design No. 480421-001). The invention was developed by Dr. S. Sivasankar, Dr. Basanth Babu K. Mohanram, Dr. John Robert Prince M, and Dr. Germin Nisha M.

These achievements highlight the department's dedication to developing innovative and sustainable engineering solutions while strengthening STCET's commitment to research, innovation, and intellectual property creation. The college congratulates the inventors on their remarkable accomplishments and wishes them continued success in their future research endeavors.

MECHANICAL ENGINEERING

St. Thomas College of Engineering and Technology (STCET), Chengannur, proudly celebrates another significant research milestone with the grant of an Indian Patent to Prof. Vipin Gopan, Assistant Professor, Department of Mechanical Engineering. The patent, titled "A Retrofittable Device for Additive Friction Stir Deposition on CNC Machine and Method Thereof," has been granted by the Patent Office, Government of India on 25 June 2026 (Patent No. 593448).

The patented invention introduces an innovative retrofittable device that enables Additive Friction Stir Deposition (AFSD) on conventional CNC machines, providing a cost-effective and efficient solution for advanced manufacturing and material deposition. The technology has the potential to enhance sustainable manufacturing practices by extending the capabilities of existing CNC systems without requiring major infrastructure modifications. This achievement highlights the institution's commitment to promoting research, innovation, and intellectual property creation. The Management, Principal, faculty, and students congratulate Prof. Vipin Gopan on this remarkable accomplishment and wish him continued success in his future research and innovation endeavors.



EXPERT LECTURE



Dr. Teena Joseph, Head of the Department of Artificial Intelligence & Machine Learning (AI & ML), delivered an insightful expert lecture on "Computational Thinking and Artificial Intelligence for Teachers" at Bhavan's School, Pathanamthitta. The session was designed to equip educators with a foundational understanding of computational thinking and its growing significance in modern education. The session was well received by the teachers, who appreciated the relevance of the topic and the practical strategies shared for fostering critical thinking, creativity, and digital literacy among students. The expert lecture reaffirmed the importance of empowering educators with future-ready skills to meet the evolving demands of technology-enabled education.

PRIDE OF STCET RUDHIRASENA



St. Thomas College
of Engineering & Technology
KORHAYALLOOR POSE - CHENGANNUR
NAAC A++ NIP
AUTONOMOUS



With immense pride and joy, we congratulate Ms. Aleena Elizabeth Sabu, NSS Volunteer of KTU NSS Unit 553, St. Thomas College of Engineering & Technology, Chengannur, on her selection as the Regional Coordinator of Rudhirasena (Kottayam-Idukki-Alappuzha Region). This achievement is even more special as it marks the fourth consecutive year that an NSS Volunteer from STCET has been entrusted with this prestigious leadership position. This remarkable legacy reflects the unwavering commitment, leadership, and humanitarian spirit nurtured within our NSS units. STC Rudhirasena has been at the forefront of voluntary blood donation initiatives, and we are confident that Aleena will carry forward this noble mission with dedication and excellence.

OUR TOPPERS

St. Thomas College of Engineering & Technology
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An ISO 9001:2015 Certified Institution, NAAC Accredited Institution Grade B++
Approved by AICTE Bangalore, Government of Kerala & Affiliated to APJ Abdul Kalam Technological University
Ph: 0479-230955, 230954 Email: info@stcet.ac.in stcet@stcet.ac.in

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Congratulations!

OUR KTU S6 TOPPERS OF BATCH 2023-27

 Advait S Kumar SGPA : 9.33	 Krishneswar Potty SGPA : 7.74	 M. Praveenkumar SGPA : 7.61
 Aaron Mathew SGPA : 7.50	 Aswani Krishna SGPA : 7.26	 Nidheesh P SGPA : 7.26
 Archana DP SGPA : 7.09	 Sreerag R SGPA : 7.07	 Blesson Mathew Wilson SGPA : 6.93
 Aparna A T	 Swaremi	

St. Thomas College of Engineering & Technology
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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

SEMESTER SIX

KTU EXAMINATION RESULTS 2026

Department Toppers

 DIYA ANN SHIBU SGPA: 7.65	 SUHAIL SHUKUR SGPA: 7.09	 JOSHUA MARTIN SGPA: 6.30
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Your Hard Work. Your Consistency. Your Victory.
We are proud of you!

St. Thomas College of Engineering & Technology
CHENGANNUR, ALAPPUZHA

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Congratulations!

OUR TOPPERS

 Govy Jovin 9.48	 Alisha Simon 9.09	 Angelina Hanna 9.09	 P P Krishna 8.98
 Simon S Siva 8.46	 Devika B 8.24	 Aishwarya H 8.2	

Congratulations

Semester 6

BATCH 2023-2027

OUR TOPPERS

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 Tel: 0479-2369993 | Phn: +91 93888 96108 | Email: info@stcet.net

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING
 (ARTIFICIAL INTELLIGENCE & MACHINE LEARNING)

KTU S6 RESULTS

Congratulations

 Arthulya A SGPA: 8.72	 Nandana Rajesh SGPA: 8.72	 R Poonthendral SGPA: 7.93	 Sooraj M S SGPA: 7.8
 Kritika S SGPA: 7.78	 Manya Raju SGPA: 7.5	 Amit Ajit Kumar SGPA: 7.48	 Anisha N Palakkal SGPA: 7.15

BATCH: 2023-27

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DEPARTMENT OF AGRICULTURE ENGINEERING
 (BATCH 2023 - 2027)

6TH SEMESTER TOPPERS

Congratulations

 THEERTHA A S SGPA - 9.00		
 KEERTHANA V S SGPA - 8.97	 SONA SIBY SGPA - 8.71	 RAICHEL NELSON SGPA - 8.67
 NOORA FATHIMA N SGPA - 8.60	 ANUSREE A SGPA - 8.58	 DEVIKA T S SGPA - 8.50

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