



**The Board of Studies (BoS) meeting was successfully conducted on 12th**


## COLLEGE VISION

Creating eminent and ethical leaders through quality professional education with an emphasis on holistic excellence.

## COLLEGE MISSION

- To emerge as an institution par excellence of global standards by imparting quality engineering and other professional programmes with state-of- the-art facilities.
- To equip the students with appropriate skills for a meaningful career in the global scenario.
- To inculcate ethical values among students and ignite their passion for holistic excellence through social initiatives.
- To participate in the development of society through technology incubation, entrepreneurship and industry interaction.

## DEPARTMENT VISION

To emerge as a Centre of Excellence in Civil Engineering through quality professional education and to create eminent leaders with values committed to the profession and society.

## DEPARTMENT MISSION

- To impart state of the art education and to provide industry exposure to students
- To create civil engineers who successfully adapt and innovate solutions for the built environment
- To inspire and transform the students to hard core professionals and academicians with ethical values.

**PROGRAMME EDUCATIONAL OBJECTIVES**

The program educational objectives of B. Tech in Civil Engineering are:

Graduates will have concrete knowledge in the application of necessary mathematical tools, scientific theories and modern developments in civil engineering.

Graduates will understand the societal needs and will be committed in developing optimal solutions.

Graduates will pursue higher education, research or entrepreneurship apart from being employable.

Graduates will be competent to face challenges in civil engineering through lifelong learning process and will have high ethical values, honesty and a sense of responsibility

**PROGRAMME SPECIFIC OUTCOMES**

Acquire the ability to plan, furnish and/or analyse designs and implement infrastructure related systems, produce related documents, drawings and reports, and quantity estimates, related to civil engineering domain.

Apply theoretical concepts and technical skills in developing appropriate sustainable solutions through self -learning, research and teamwork for technical problems requiring civil engineering interventions towards a better quality of life.

Utilise the acquired knowledge in Environmental Engineering and Transportation Engineering to conceptualise, analyse, evaluate specific problems in Water Quality Management, Sanitation, Pavement Design, Traffic Engineering and Transportation Planning and develop appropriate solutions.

## Department Activities

A **technical talk organized by the ISTE Students Chapter in association with the Civil Engineering Association (CEA)** was held as part of the CEA inauguration, featuring an invited talk on **"Designing Destiny: An Engineer's Perspective"** by **Mr. Rivin Varghese (Alumni 2016),** RR Builders and Arqluxe Design Studio, Bengaluru on 11.07.2025.

**Industrial Visit organized by ISTE students' chapter in association with CEA – Pre-visit orientation talks by Ms. Anna Joseph**, Assistant Professor, Dept. of Civil Engineering (ISTE member & Assistant coordinator, CWRE), JEC and one day industrial visit to **Water Treatment Plant, Kerala Water Authority, Peechi and Floating Pump house at Peechi dam.**

**An industrial visit organized by the ISTE Students Chapter in association with CEA** included a pre-visit orientation talk **by Mr. Cyriac M. G.,** Associate Professor (Coordinator CWRE), JEC, **followed by a one-day industrial visit to the Waste Water Treatment Plant, Kerala Water Authority, Guruvayoor, and the Solid Waste Management Center, Kunnamkulam** on 16.07.2025 and 18.07.2025.


A **one-day workshop on "3D Printing and Design"** was organized **by the ISTE Students Chapter in association with IIIC** for second-year Civil Engineering students on 25.07.2025.


An **MoU** was **signed between the Department of Civil Engineering and RR Builders and Arqluxe Design Studio, Bengaluru** on 11.07.2025.


Dr. Alwyn Varghese, Mr. Alfred George, Ms. Anna Joseph, Ms. Soorya M. Nair, and Dr. Vincy Verghese **visited MatterLab (ULCC)** at **Calicut** on 26th July 2025 as part of a faculty visit from the Department of Civil Engineering, Jyothi Engineering College, Thrissur.


**Dr. Sooraj Krishnan** conducted a workshop on **"Virtual Labs on Surveying"** on 30.07.2025, organized by the Virtual Lab Nodal Center, Jyothi Engineering College, Thrissur.

**NDLI Club** in association with **IEI and CEA** organized a talk on **"Navigating Inland Waterways in Kerala: Opportunities and Challenges"** by **Dr. Rameesha T.V., Scientist-B, Water Transport (Including GIS Division), KSCSTE-NATPAC**, Regional Office Ernakulam on 13.08.2025.

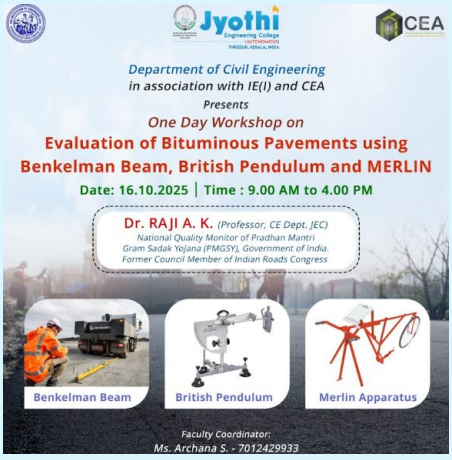
**Placement training** was conducted for **S7 CE students** (Batch 2022–2026) on 22, 23 & 25 August 2025.

A **Workshop** on **""Water Quality and Sanitation"" for** staff from **St. Joseph's Engineering College, Palai** was conducted on 1 August 2025 at CWRE.

Dr. Alwyn Varghese and Ms. Neeraja P. G. **visited Shornur Municipality solid waste management system** on 05.08.2025.


A **pre-workshop class on BBD** by Dr. Raji A. K. for faculty was conducted on 15/10/2025.

**A one-day workshop on BBD in association with IE(I) and CEA** for S3, S5, S7 and M. Tech (S1 & S2) students was conducted on 16.10.2025.


**LaTeX training** for S7 CE students was conducted on 21.10.2025.

First year Civil Engineering students attended the **IEI TCR Local Chapter Silver Jubilee Celebration** and Technical Talk on 07.11.2025.

The **All-Kerala Water Quality Quiz Competition for higher secondary school students** was conducted by **CWRE in association** with the **Department of Civil Engineering** on 01.11.2025.

**MoU signed between Kivo Spaces, Bengaluru and the Department of Civil Engineering, Jyothi Engineering College, Thrissur** on **6 December 2025**.

**Vocational Skill Development Training Program** conducted for students of **Bharatiya Vidya Bhavan, Wadakkanchery** on **12 December 2025**

## Student Achievements

**Ms. Sivanisivan C. K., Ms. Medhaa K. R., and Ms. Jasla Salim, PG Scholars** of Jyothi Engineering College, Cheruthuruthy **successfully completed the AICTE Training and Learning (ATAL) Academy Faculty Development Program on Geographic Information System and Remote Sensing at Maharaja's Technological Institute** from 15/09/2025 to 20/09/2025.

**Seven students from S5 CE** (Akhil Baiju John, Bastin K T, Vaishnav M R, Anjali A K, Anseena Paul, Austin James, Krishnapriya V) successfully **completed NPTEL course.**

**Ms. Tez (Batch: 2019–2023), Ms. Sangeetha, Ms. Akshaya (Batch: 2020–2024), Mr. Sidhil (2020-2024) Ms. Sreelakshmi P., Ms. Sreelakshmi K. G., and Ms. Athira T. P. (Batch: 2021–2025)** have joined **M. Tech at GEC, Thrissur.**

**Hridya (Batch: 2020–2024) joined M. Tech** in Construction Technology and Management **at NIT Surathkal.**

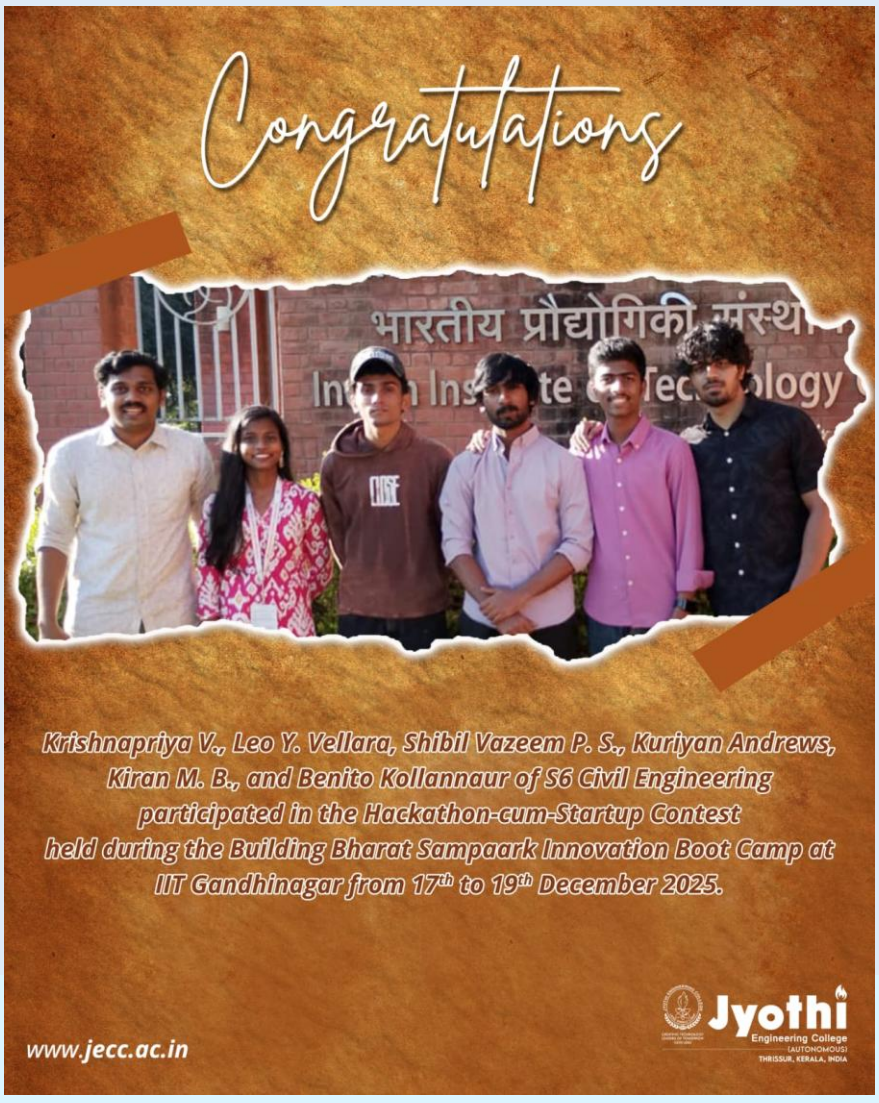
**Mr. Alphred Varied, Ms. Kavya M. M., Mr. Aadharsh K. M., and Ms. Athira K. R. presented a paper titled "Performance Evaluation of Sand-Coated Recycled HDPE and E-Plastic Aggregates as Partial Replacements for Coarse Aggregate in Sustainable Concrete"** under Paper ID: 24 at the International Conference on Civil, Environmental and Applied Sciences **(ICCEAS-2025),** organized by the Department of Civil Engineering and Basic Science & Humanities, Gandhi Institute for Education and Technology, Baniatangi, during 18–19 July, 2025.

**Ms. Vijayalakshmi S., Mr. Neeraj Mohan T, Ms. Ruby Mariya Joshy, and Ms. Anjana Chandran V. presented a paper titled "Enhanced Concrete Performance with Lightweight Aggregates: Investigating the Role of Nano-Silica and Silica Fume" at ICCEAS-2025, organized by the Department of Civil Engineering and Basic Science & Humanities, GIET, Baniatangi,** during 18–19 July, 2025.

**Ms. Jasla Salim, Ms.Reema Sherin C. H., Ms. Saranya P. S., Ms. Sheethal Joseph P., and Ms. Sivanisivan C. K. (all from S3 M.Tech TE) successfully completed the NPTEL** 12-week course on **Sustainable Transportation Systems** offered by IIT Roorkee.

**Krishnapriya V., Kuriyan Andrews, Kiran M. B., Shibil Vazeem P. S., Benito Kollannaur, and Leo Y. Vellara** successfully participated in the **Hackathon-cum-Startup Contest** held during the **Building Bharat Sampaark Innovation Boot Camp in Civil Engineering** at **IIT Gandhinagar**, from **17–19 December 2025**.

**Anna Rose, Ardra R, Celin Rose A. B., Devika M. J., Jesvin K. Joy, Merin Joy P., Midhil M. R., Sona Sunny, Aleena P. Sunny, and Malavika T. M.** of **S4** successfully completed **NPTEL courses**.



## Faculty Achievements

Dr. Vincy Verghese **successfully completed two Coursera MOOC courses on** "Getting Started with Microsoft Excel" **and** "Introduction to Data Analysis using Microsoft Excel" **on** 1st July 2025**.**

**Ms. Soorya M. Nair** successfully completed the **Infosys Springboard course "Introduction to 2D Modeling"** on 06 August 2025.

**Dr. Vincy Verghese** served as a **Resource Person** for a **Visiting Faculty Talk** on **"Advancements in Rigid Pavement Technology"** organized by the **Department of Civil Engineering, MTI, Thrissur**, on 12 August 2025.

**Ms. Jisha Akkara** successfully completed the **AICTE Training and Learning (ATAL) Academy Faculty Development Program** on **"Artificial Intelligence in Civil Engineering: A Multidisciplinary Approach"**, held at **PACE Institute of Technology and Sciences** from 18–23 August 2025.

**Ms. Anna Joseph** completed the **Crash Course titled "NBA Re-imagined"** through an online mode on 23 August 2025.

**Ms. Jisha Akkara** participated in and successfully completed the **AICTE Training and Learning (ATAL) Academy Faculty Development Program** on **"Emerging Frontiers in Energy, Climate and Sustainability"** held at **Government Engineering College, Samastipur**, from 08–13 September 2025.

**Ms. Archana S.** participated in the **5-day Faculty Development Programme (FDP)** titled **"Advances in Intelligent Civil Engineering (AICE) – 2025"**, organized by the **Department of Civil Engineering, Madanapalle Institute of Technology & Science (MITS) – Deemed to be University**, from 10–14 September

**Dr. Vincy Verghese** participated in and completed the **AICTE Training and Learning (ATAL) Academy Faculty Development Program** on **"Geographic Information System and Remote Sensing"** held at **Maharaja's Technological Institute**, from 15–20 September 2025.

Ms. **Soorya M. Nair** successfully completed the **NPTEL Course "Technical Communication for Engineers" (Elite with Silver)** and was featured among the **top 5%** of candidates.

Mr. **Suhas Nair S** successfully completed the **NPTEL Course on Geotechnical Engineering Laboratory**.

Dr. **Alwyn Varghese** and Ms. **Anna Joseph** successfully completed the **NPTEL Course "Sustainable Engineering Concepts and Life Cycle Analysis" (Elite with Silver)**.

**Dr. Alwyn Varghese** published a book titled **"Engineering Ethics and Sustainable Development: An Academic Text on Professional Ethics, Environment, and Sustainability."**

Ms. **Anna Joseph, Ms. Jeffy Johny and Mr. Suhas S. Nair** presented their paper **"Biological Decomposition of Hair Keratin During Composting"** at the **International Conference on Civil Engineering and Architecture for Sustainable Infrastructure Development and Environment (CEASIDE 2025)** organized by **Government Engineering College, Thrissur** during **9–11 October 2025**.

**Ms. Soorya M. Nair** and **Dr. Alwyn Varghese (**participated in the **IGBC Online Training Programme on Green & Net Zero Buildings** from 29th to 31st Oct 2025.

**Ms. Anna Joseph** and **Dr. Vincy Verghese** successfully completed the **PALS FDP** offered by **Teaching Learning Centre, IIT Madras**.

**NPTEL Course: Building Materials as a Cornerstone to Sustainability (12-Week, IIT Madras):**
**Ms. Soorya M. Nair** and **Ms. Jisha Akkara** achieved **Elite Gold**, while **Sr. Isline Shajan** secured **Elite Silver** in the course.

**Ms. Jisha Akkara** completed the **NPTEL Course "Ethics in Engineering Practice" (8-week), IIT Kharagpur**.

**Ms. Jeffy Johny** earned **NPTEL Elite Silver** in **"Ground Improvement" (12-week), IIT Kharagpur**.

**Mr. Suhas Nair S.** and **Ms. Jeffy Johny** participated in the **Regional Workshop on "Strengthening Community–Academic Partnerships: Tribal and Fisher Folk Outreach"** held on **10 November 2025**, organized by the **Regional Coordinating Institute for Central Kerala & Lakshadweep – Kerala Agricultural University**.

**Dr. Alwyn Varghese** reviewed the journal article titled **"GFRP Bar-Reinforced Concrete Flexural Slabs at Elevated Temperature: Finite Element Modelling"** for the journal **Reinforced Plastics and Composites**.

**Sr. Isline Shajan** participated in the **6-Day FDP on "Civil Engineering Modelling Lab (PCCEL408)"** organized by the **Department of Civil Engineering** in association with **ARCITE School of Technical Education** from **17–22 November 2025**.

**Dr. Alwyn Varghese successfully earned the title of *IGBC Accredited Professional*** on 15 November 2025, awarded by the Indian Green Building Council (CII) upon demonstrating expertise in Green Building Design &

Construction, Building Standards & Codes, IGBC processes, and sustainable design strategies.

**Ms. Neeraja P. G.** attended an **AICTE Faculty Development Program (FDP)** on **"Disaster Management and Resilient Structures"** at **IES College of Engineering** from **15–20 December 2025**.

**Ms. Soorya M. Nair** attended an **AICTE Faculty Development Program (FDP)** on **"Disaster Management and Resilient Structures"** at **IES College of Engineering** from **15–20 December 2025**.

**Ms. Soorya M. Nair** attended a **Residential Workshop titled "Think Create Engineer"** organized by **IIT Madras – PALS**, held from **22–24 December 2025**.

**Dr. Raji A. K.** published a book titled **"Transportation Engineering"**, now available on the **AICTE Books Portal**.

**Ms. Anju M. J.** successfully completed an **AICTE–ATAL Academy FDP** on **"Energy Utilisation for Sustainability as a Solution for Climate Change"** at **Musaliar College of Engineering and Technology, Pathanamthitta**, from **15–20 December 2025**.

**Ms. Anju M. J.** successfully completed an **AICTE–ATAL Academy FDP** on **"Sustainable Urban Waste Management: Combining Centralized and Decentralized Systems with AI Innovation"** at **Marian Engineering College**, from **24–29 November 2025**.

**Ms. Neeraja P. G.**, **Mr. Suhas Nair S.**, and **Ms. Jeffy Johny** successfully completed an **AICTE–ATAL Academy FDP** on **"Circular Economy in Civil Infrastructure – A Pathway to Sustainable Development"** at **NSS College of Engineering**, from **24–29 November 2025**.

**Mr. Suhas Nair S.** participated in a **One-Day State-Level Faculty Workshop** on **"Curricular Integration of Indian Knowledge System (IKS)"**, held on **7 December 2025** at **Kovai Central Manavalakalai Mandram Arakattalai, Coimbatore**, organized by **Shiksha Sanskriti Utthan Nyas**.

**Ms. Soorya M. Nair** achieved the professional credential of **IGBC Accredited Professional (IGBC AP)**, awarded by the **Indian Green Building Council**.

**Ms. Archana S.** completed an **Online Course on "RS & GIS Applications in Natural Resource Management"**, conducted from **10–21 November 2025**, through **IIRS Nodal Centre – NATPAC (National Transportation Planning and Research Centre)**.

## Faculty Publication and conference presentations

**Ms. Archana S.** presented a paper titled **"Speeding and calming characteristics and speed prediction based on spatiotemporal traffic data"** at the **11th International Conference on Transportation System Engineering and Management (CTSEM 2025)** held on **4–5 July 2025** at **MANIT Bhopal**, jointly organized by MANIT Bhopal and CSIR–CRRI.

**Ms. Suhas Nair S., Ms. Jeffy Johny and Ms. Anna Joseph** published a research paper titled **"High Performance Reactive Powder Concrete Using Copper Slag and Pozzolanic Materials for Eco-Efficient Construction"** in the **International Journal of Scientific Research in Engineering & Technology**,

## Program Outcomes (POs)

**PO1: Engineering Knowledge**
Apply knowledge of mathematics, natural science, computing, engineering fundamentals and an engineering specialization as specified in WK1 to WK4 respectively to develop to the solution of complex engineering problems.

**PO2: Problem Analysis**
Identify, formulate, review research literature and analyze complex engineering problems reaching substantiated conclusions with consideration for sustainable development. (WK1 to WK4)

**PO3: Design/Development of Solutions**
Design creative solutions for complex engineering problems and design/develop systems/components/processes to meet identified needs with consideration for the public health and safety, whole-life cost, net zero carbon, culture, society and environment as required. (WK5)

**PO4: Conduct Investigations of Complex Problems**
Conduct investigations of complex engineering problems using research-based knowledge including design of experiments, modelling, analysis & interpretation of data to provide valid conclusions. (WK8)

**PO5: Engineering Tool Usage**
Create, select and apply appropriate techniques, resources and modern engineering & IT tools, including prediction and modelling recognizing their limitations to solve complex engineering problems. (WK2 and WK6)

**PO6: The Engineer and The World**
Analyze and evaluate societal and environmental aspects while solving complex engineering problems for its impact on sustainability with reference to economy, health, safety, legal framework, culture and environment. (WK1, WK5, and WK7)

**PO7: Ethics**
Apply ethical principles and commit to professional ethics, human values, diversity and inclusion; adhere to national & international laws. (WK9)

**PO8: Individual and Collaborative Team Work**
Function effectively as an individual, and as a member or leader in diverse/multi-disciplinary teams.

**PO9: Communication**
Communicate effectively and inclusively within the engineering community and society at large, such as being able to comprehend and write effective reports and design documentation, make effective presentations considering cultural, language, and learning differences.

**PO10: Project Management and Finance**
Apply knowledge and understanding of engineering management principles and economic decision-making and apply these to one's own work, as a member and leader in a team, and to manage projects and in multidisciplinary environments.