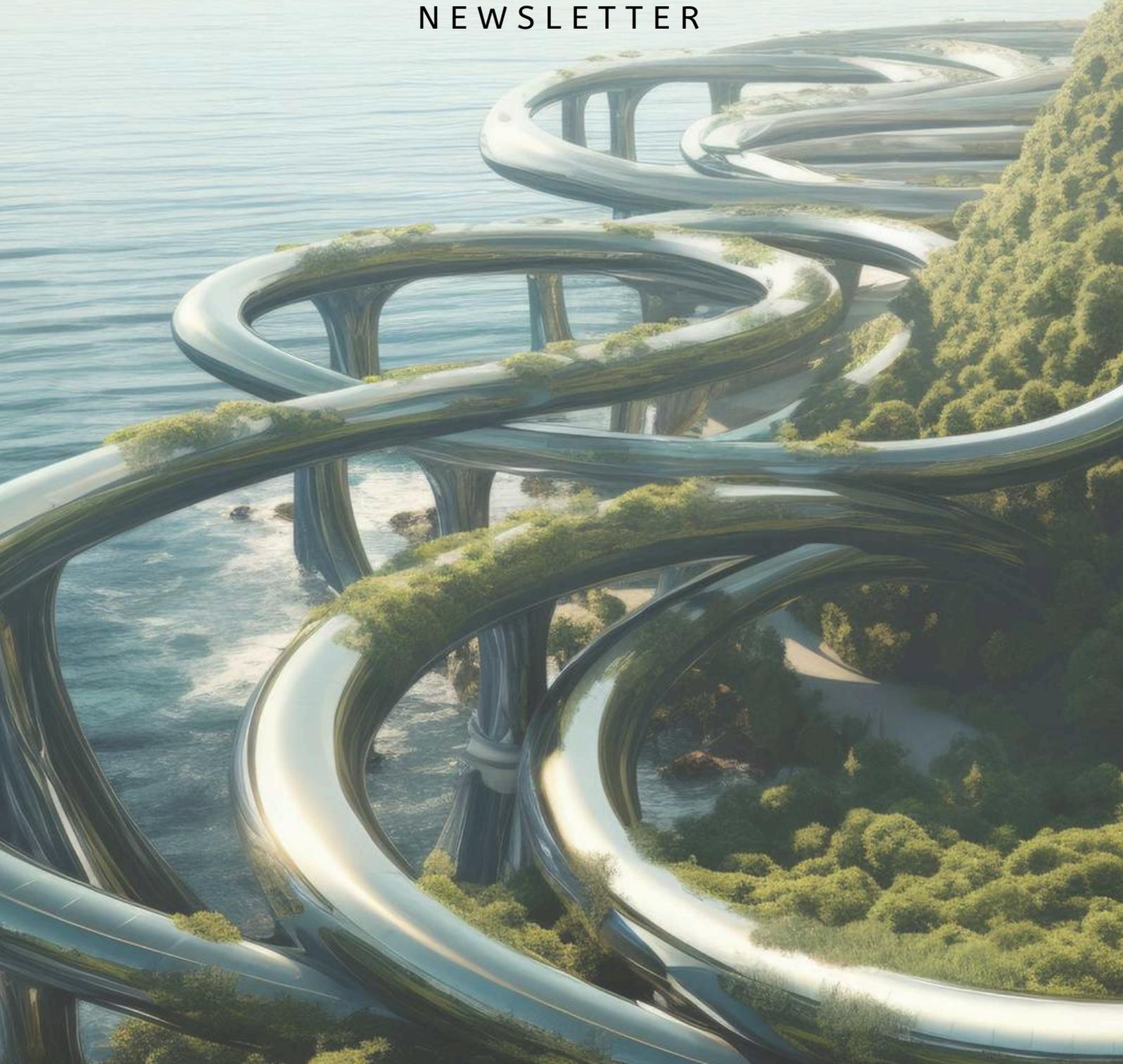




NEWSLETTER



# ETERNIA'25

Visionary Engineering Leaves A Lasting Legacy

# MESSAGE FROM HOD

The Department of Civil Engineering was established in the year 2013 with an intake of 60 students in the under-graduate level. Our Department with highly qualified dedicated faculty, well equipped laboratories and infrastructure facilities goes the extra mile in ensuring quality education. We are committed in moulding the students into excellent engineering professionals by exposing them to new innovations and developments in the field of Civil Engineering. We are actively involved in organizing various technical activities, Site/ Industrial visits and Internship training to nurture the skills of students. The Department focuses on in-house research projects and consultancy services where research activities are executed. We also develop entrepreneurial skills in students to drive the spirit of growth of our economy.

## DEPARTMENT VISION

To be a centre of excellence in the field of Civil Engineering and serve the society through continuing education and research.

## DEPARTMENT MISSION

- To identify real-life problems in civil engineering domain and propose solutions through effective teaching-learning process.
- To refine the technical skills, knowledge and ethical values of the students for the sustainable development of the society.
- To facilitate collaborated research projects, offering opportunities for long term interaction with industries.
- To ignite the spark of entrepreneurship in students, leading them to start their own ventures.

## CONTENT DEVELOPERS

Mentor : Sunith John David, AP, CED  
Chief editor : Nivya Mary Abraham, AP, CED  
Designers : Neethu R Menon (S5 CE),  
P Shredha (S5 CE)

# Faculty Achievements

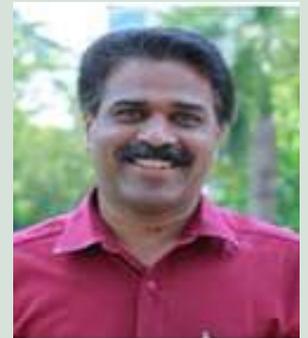


*Dr. Mary Lissy P N*

- Attended L&T College Connect 2024, a partner event conducted by L&T Edutech on 5th September 2024 at Chennai.
- Selected as a member of Wetlands International, South Asia.
- Attended FDP on Modern Civil Engineering Techniques organized by IIT- PALS and Industry Experts.
- Received copyright for the project titled "Energy efficient bricks using industrial debris" from the Government of India.

*Dr. Shaji M Jamal*

- Presented a topic on "Mesoscopic Numerical Modelling of Concrete Using Python" in the Faculty Development Program, Python Programming for Civil Engineering Applications in the department of Civil, SCMS School of Technology, Karukutty.
- Received copyright for the project titled "Barcode scanner for answer script mark entry mobile application" from the Government of India.
- Received copyright for the project titled "Application for 2D 2-phase mesoscopic modelling of concrete using non-circular aggregates" from the Government of India.
- Received design patent for the project titled "Burnt clay square bonsai pot" from the Government of India.



*Mr. Sunith John David*

- Published paper on 'A statistical approach towards performance of infiltration models with field infiltration values', Physics and Chemistry of the Earth 140 (2025) 103972.
- Attended FDP on Modern Civil Engineering Techniques organized by IIT- PALS and Industry Experts.

*Mr. Binol Varghese*

- Received best program officer award for NSS, from esteemed higher education
- Received copyright for the project titled "Barcode scanner for answer script mark entry mobile application" from the Government of India.
- Received design patent for the project titled "Burnt clay square bonsai pot" from the Government of India.



*Ms. Minnie Mariya James*

- Successfully completed the NPTEL courses Ground Improvement with Topper(1%) and Elite + Gold badge and Finite element analysis and constitutive modelling in Geo mechanics with an Elite Certification.
- Attended FDP on Modern Civil Engineering Techniques organized by IIT- PALS and Industry Experts.

# Faculty Achievements

## *Mr. Daniel A V*

- Presented a topic on "Structural Modelling using Openseas" in the Faculty Development Program, Python Programming for Civil Engineering Applications in the Department of Civil, SCMS School of Technology, Karukutty.
- Received copyright for the project titled "Barcode scanner for answer script mark entry mobile application" from the Government of India.
- Received design patent for the project titled "Burnt clay square bonsai pot" from the Government of India.



## *Ms. Jereena Jawahar*

- Presented a paper titled "Towards Resilient Structures: A Comprehensive Review of self-Healing Mechanisms in Engineered Cementitious Composites" in the International Conference on polymers, composites, nanocomposites & biocomposites- 2024 (ICPCNB-2024) on November 8th to 10th, 2024 at Mahatma Gandhi University, Kottayam, Kerala, India.
- Attended FDP on Modern Civil Engineering Techniques organized by IIT- PALS and Industry Experts.

## *Ms. Ginu S Malakeel*

- Attended a 5- day Online Faculty Development Program on Problem Solving and Advancement in Python Programming, organized by Sree Narayana Institute of Technology, Adoor



## *Dr. Rija Johnny*

- Attended a 3-Day Online Faculty Development Program on "Building Sustainable Futures: Expert Insights in Structural, Geotechnical, and Transportation Engineering", organised by the Department of Civil Engineering, AWH Engineering College, Kozhikode.

# **TECHNICAL TALKS**

## **"BUILT ENVIRONMENT & PROJECT MANAGEMENT FOCUSED ON SUSTAINABILITY"**



A technical talk on built environment and project management focused on sustainability was delivered by Prof. Derek Carson, Faculty of Society & Design, Bond University, Australia on August 9th 2024. It was emphasized by the speaker how project managers must lead efforts with eco-friendly strategies, focusing on energy efficiency. Solutions such as using low-carbon materials were highlighted as crucial to reducing the environmental impact of construction projects. Low-carbon materials, including recycled steel and low-carbon concrete, were showcased as viable options for sustainable development. Prof. Carson also urged the audience to embrace the integration of technologies such as Building Information Modeling (BIM) and Artificial Intelligence (AI) in shaping a more sustainable future for civil engineering.

## **"LANDSLIDES: NATURAL OR AGGRAVATED"**



Department of Civil Engineering organized a technical talk on topic "Landslides Natural or Aggravated" on 21st August 2024. The technical talk was delivered by Prof. Dr. Babu Kurian Professor, MITS. He mentioned the complex phenomenon of landslides, exploring the factors that contribute to these natural disasters. Prof. Babu Kurian began by defining landslides and their types, highlighting the devastating impact on human life, infrastructure, and the environment.

## **"VAASTU – BASIC GUIDELINES FOR BUILDING PLAN"**



A technical session on VAASTU was delivered by Dr. Kannan C Bhanu, Assistant Professor, Carmel College of Engineering, Alappuzha on 26th September 2024. The session introduced the principles of Vaastu Shastra, focusing on harmonizing energy flow in building design. Guidelines for spatial arrangements, such as the orientation of rooms & placement of entrances, were discussed in detail.

# **TECHNICAL TALKS**

## **CONSTRUCTION OF SEAWALL AT CHELLANAM: AN OVERVIEW**

Department of Civil engineering organized a technical talk on Construction of Sea wall at Chellanam, by Mr. Aswin Subhan , Assistant Engineer, PMU ASE Chellanam, Irrigation Department on 16th October 2024. The session provided an overview of the Chellanam seawall project, highlighting its significance in coastal protection. Detailed the construction techniques, emphasizing the use of tetrapods and granite to enhance wave resistance and structural durability.

## **SESSION ON INDUSTRIAL SAFETY**

Dr. Shaji M Jamal, Assistant Professor, Department of Civil Engineering, Conducted a practical session on Safety in Industry for the final year students of Civil engineering on September 12th, 2024. The students could see the safety issues and the measures for ensuring safety related to machines.

## **RESEARCH SEED MONEY FUNDING**

Mr. Sunith John David, received research seed money funding of Rs. 72,500 from APJAKTU for the project titled "Clouded Rain Gauge" during July 2024.

## **ASCE STUDENT CHAPTER**

The student Chapter of American Society of Civil Engineers (ASCE) at MITS was approved by ASCE on September 3rd , 2024 after evaluating the activities of the student chapter under the guidance of Mr. Binol Varghese.

# **STUDENT ACHIEVEMENTS**



Ameera Samad T A , Nair Aswaty Anil and Devi Harikumar received L&T Build India Scholarship, which offers fully sponsored post graduation in prestigious institutes like IIT Madras, NIT Trichy and NIT Surathkal.

Akash S, Nasni P.N, Arjun V.P and Soofiya E.S of 2018-22 batch received copyright from the Copyright Office India for the work, "Automatic generation of 2D 2 phase mesoscopic non circular aggregates for numerical concrete". (Copyright awarded Reg. No: SW- 19600/2024).

Sheba Elizabeth Mathews, Ameen Ashraf, Goldina Wilson, Lakshmi Govind of 2020-2024 batch along with Ms. Jereena Jawahar presented a paper entitled "Self-healing in mortar using sodium silicate microcapsules encapsulated in polyurethane shells" in the International Conference on Innovative Practices in Sustainable Engineering and Technology (IC-IPSET'24) held during 29 to 31 July 2024, organised by the Department of Civil Engineering, Mar Baselios Institute of Technology and Science, Kothamangalam in collaboration with SERB and KSCSTE.

# STUDENT ACHIEVEMENTS



Sheba Elza Sunil, Neethu R Menon, Devikrishna N and Adithya Pramod (2023-27 batch) won TECHXCELL Challenge organised by IEDC MITS

Liya Wilson, Sana Jasmine, Joel Manoj, Tony Mathew and Dr. Mary Lissy P N, presented paper titled Sustainable and Energy efficient brick production from industrial wastes in an International Conference on Materials, Structures and Environment ICMSE 2024 organized by NSS college of Engineering Palakkad on 5th and 6th July 2024. Paper has been accepted in UGC care Journal.



Merlin Puthettu (2023-2027 batch) qualified to attend Residential Student Workshop at IIT Madras.

# STUDENT ACHIEVEMENTS

## SPORTS



**ASWIN S. NAIR** (2022-2026 batch)  
- Selected in KTU university  
basketball team 2024-25

**ASWANTH M. M** (2022-2026 batch)  
- Selected in KTU university  
Volleyball team 2024-25



**AKSHAY S. MARAR** (2022-2026 batch)  
- Selected for NSS National Integration  
camp

**Issac Joy** (2023-2027 batch) represented KTU University Karate team for South west zone Inter- University Karate Championship held at Bhopal and qualified for the All India Inter University Karate Championship held in Punjab.



# **STUDENT ACHIEVEMENTS**

## **NPTEL CERTIFICATION**



### **SHEBA ISSAC (2023–2027 BATCH)**

successfully completed NPTELCourse Building Materials and Composites with Topper (1%) and Elite + Silver Badge.



### **AMITHA KURIAKOSE (2021–2025 BATCH)**

successfully completed NPTEL Course Software Engineering with an Elite certification.



### **ABHAY MATHEW (2021–2025 BATCH)**

successfully completed NPTEL Course Deep Learning with an Elite certification.



Devika P  
(2021-2024 batch)  
SGPA - 9.3



Shifana Fathima P A  
(2022-2026 batch)  
SGPA - 9.3



Devikrishna N  
(2023-2027 batch)  
SGPA - 9.68



Hridya Binoy  
(2024-2028 batch)  
SGPA - 9.39



