

CIVIL CHRONICLE

*Newsletter by Department of Civil Engineering
Adi Shankara Institute of Engineering and Technology, Kalady*



Department Vision

**TO EMERGE AS A CENTRE OF EXCELLENCE
IN CIVIL ENGINEERING WITH GLOBAL
PERSPECTIVES.**

Department Mission

- **TO IMPART QUALITY PROFESSIONAL EDUCATION SO THAT THE STUDENTS EMERGE AS A COMPETENT PROFESSIONAL IN THE AREA OF CIVIL ENGINEERING.**
- **TO PROMOTE INNOVATIVE THINKING AND LIFELONG LEARNING IN BUDDING ENGINEERS.**
- **TO PRODUCE CIVIL ENGINEERS WHO HAVE IMBIBED ETHICAL VALUES TO SERVE THE SOCIETY AND NATION.**

IN THIS ISSUE

INSTITUTE EVENTS

DEPARTMENT ACTIVITIES

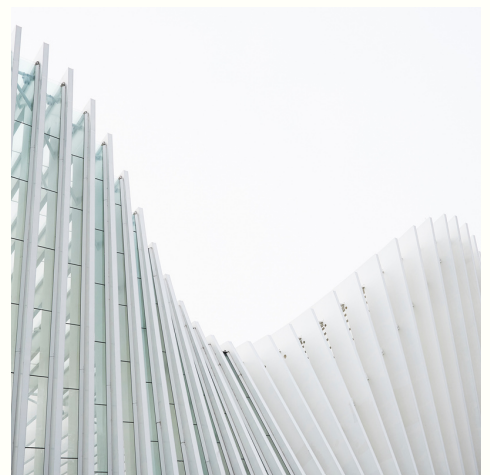
STUDENT ACHIEVEMENTS

STAFF OUTREACH

FOOD FOR THOUGHT

Program Educational Objectives (PEOs)

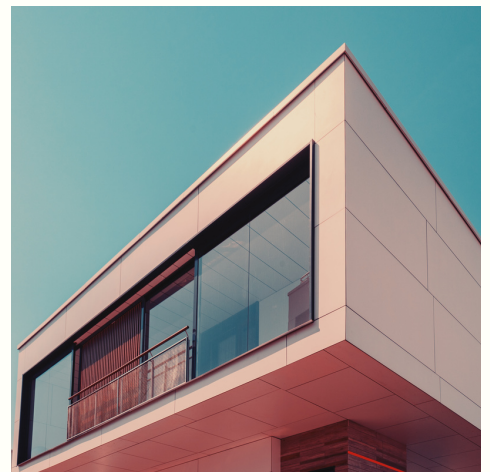
- GRADUATES WILL HAVE A POTENTIAL TO PURSUE HIGHER STUDIES AND RESEARCH IN THE FIELD OF CIVIL ENGINEERING AND INTERDISCIPLINARY AREAS.
- GRADUATES WILL BE ABLE TO PRODUCE SUSTAINABLE SOLUTIONS WITH PROFESSIONAL ETHICS FOR REAL TIME CIVIL ENGINEERING PROBLEMS.
- GRADUATES WILL HAVE MANAGERIAL SKILLS AND LEADERSHIP QUALITIES IN EXECUTION OF CIVIL ENGINEERING PROJECTS.
- GRADUATES WILL BE ABLE TO WORK WITH INTEGRITY AND ETHICAL VALUES.



Program Specific Outcomes (PSOs)

AFTER SUCCESSFUL COMPLETION OF B.TECH IN CIVIL ENGINEERING, THE STUDENTS WILL BE ABLE TO:

- CHECK THE FEASIBILITY AND SUSTAINABILITY OF CIVIL ENGINEERING PROJECTS BY CONDUCTING GEOTECHNICAL INVESTIGATION, CIVIL ENGINEERING SURVEY AND ENVIRONMENTAL IMPACT ASSESSMENT.
- ANALYSE AND DESIGN BUILDINGS, HYDRAULIC STRUCTURES AND WATER DISTRIBUTION, WASTE MANAGEMENT AND TRANSPORTATION SYSTEMS.
- EXECUTE CIVIL ENGINEERING PROJECTS WITH THEIR KNOWLEDGE IN ESTIMATION, PROJECT MANAGEMENT, CONSTRUCTION MATERIALS AND TECHNOLOGIES



**CIVIL ENGINEERING
DEPARTMENT**

KMRC-KTU Funded Project

In connection with KMRC- KTU funded project, Civil Engineering Department, ASIET recieved initial payment cheque from KTU Vice Chancellor at Industrial minister P Rajeev's office. Principal of the institute, Dr. Suresh Kumar, Civil Engineering Department Head Mr. Aneesh PC, and Department Faculty Dr. Manu S Nadesan was present during the event. Dr. Manu S Nadesan is the principal investigator and Ms Jyotilekshmi R is the co-investigator of the project.



MoU with Wentainer

An MoU has been signed between ASIET and Team Wentainer on 19th March 2022 for providing academic consultation to the company, which is currently incubated at IIT Palakkad. Department of Civil Engineering is one among those offering design and other technical assistance to their work.

DEPARTMENT ACTIVITIES

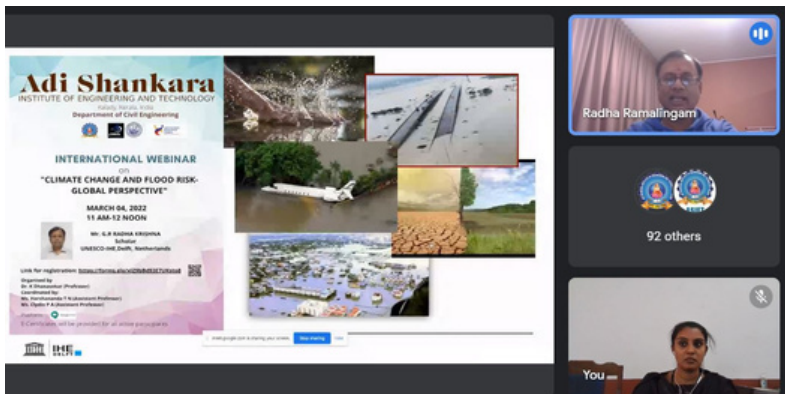
Associating in Operation Vahini



Department has associated with Ernakulam District Administration in Operation Vahini which envisages to clear all the obstructions along Periyar

and Muvattupuzha rivers and their tributaries before the arrival of monsoon. As a part of this, soil composition studies have been conducted of samples submitted by various panchayaths including Vazhakulam, Keezhmad, Kalady collected in their area. Mr. Abishek Kumar AA, Assistant Professor is the principal investigator of the project. Consolidated soil study reports are handed over to the concerned panchayaths.

International Webinar

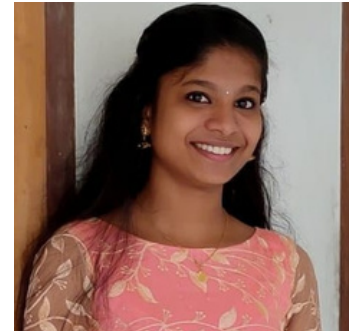


Department of Civil Engineering organised an International webinar on "CLIMATE CHANGE AND FLOOD RISK - GLOBAL PERSPECTIVE" on

March 4, 2022. The session delivered by Mr. G R Radha Krishna , Scholar, UNESCO Delft was organized by department professor Dr. K Dhanasekhar and coordinated by Assistant Professors Ms. Clydin P A and Ms. Harshananda T N.

DEPARTMENT ACTIVITIES

Lakshmipriya O P of S7 CE has successfully participated in the international Webinar Tilted Climate Change and Flood Risk - Global Perspective on 4th March 2022.



Anjanamol Joseph of S5 CE attended 5 days internship on Basic Site Engineering organized by tech maghi in association with Metcon and Takshak 21, National level technical fest MA college, Kothamangalam. She also attended a webinar on Design of structure from Theory to practice organized by tech maghi in association with metcon and Takshak 21 (National level technical fest MA college, Kothamangalam). She successfully served as a Campus Ambassador (core team member) of tech maghi from 15 th march 2021 to 12 th march 2022

STUDENT ACHIEVEMENTS

- Dr.K.Dhanasekar, organized an International Webinar on Climate Change and Flood Risk-A global perspective on 4th March 2022. The resource person is Er.G.R.RadhaKrishna from UNESCO-IAH, Netherland
- Dr.K.Dhanasekar attended a webinar on “Public Safety against Chemical Disasters” conducted by National Institute of Disaster Management, New Delhi on 10th March 2022.



- Ms. Shabnum Suhura attended a 5 day FDP on “Water- A Precious Natural Resources” organized by department of Civil Engineering, Bangalore Institute of Technology, Bangalore from 22nd March, 2022 to 26th March, 2022.

- Ms. Clydin P A attended a 3 day FDP on “Use of building Information Modelling Tools” organized by department of Civil Engineering, Albertian Institute of Science and Technology, Kalamassery in association with BIMLABS Engineering Services Pvt. Ltd. from 09th March 2022 to 11th March 2022



STAFF OUTREACH



Dr. Manu S Nadesan and Mr. Abin Joy published a review paper on Production of **Lightweight Aggregates for Construction Industry From Industrial ByProducts: A Review** in Advances in Sustainable Material and Resilient Infrastructure , pp 253-264, 13th March 2022.

PUBLICATIONS



THE FUTURE OF FARMING: Our current agricultural system is up to a huge task: by 2050, we will need to increase food production by about 70% in order to meet the caloric needs of a global population of 9.8 billion people—68% of whom are projected to live in urban areas. If we were to project linear growth in yield from our agricultural output from the past five

decades, we would be nowhere near achieving this kind of growth by 2050. Controlled environment agriculture, is the production of plants in an indoor environment. While indoor farming is not a new phenomenon, the more recent innovation of hydroponic farming breaks down the growing process even further by eliminating all unnecessary components of traditional farming. Hydroponic farming has strong potential to mitigate the threats the issues pose to our agricultural system. Hydroponic farming, which is soil-less, water-based farming operations, may even be done in a tiny space such as a balcony.

Hydroponics is a technique of growing plants in nutrient solutions with or without the use of an inert medium such as gravel, vermiculite, rockwool, peat moss, saw dust, coir dust, coconut fibre, etc. to provide mechanical support. Crops grown indoors and hydroponically can be grown anywhere on earth at any time of the year, regardless of weather conditions, availability of cultivable land, or soil quality. Hydroponic farming has the potential to provide fresh, local food for areas with extreme droughts and low soil quality, such as in sub-Saharan Africa where access to leafy green vegetables is often limited. (Source: The Future of Farming: Hydroponics — PSCI (princeton.edu))

STAFF EDITORS



Ms. SHABNUM SUHURA



Ms. NITHA ABRAHAM

HOD'S MESSAGE



IN THE HIGHLY COMPETITIVE WORLD OUTSIDE, I BELIEVE IN THE VALUE OF HARD WORK, COMMITMENT AND HUMANITY. THESE VALUE ADDITIONS ARE VERY MUCH ESSENTIAL FOR THE YOUNG TECHNOCRATS, ENGINEERS AND SCIENTISTS. AS A DEPARTMENT HEAD I ENVISION MY COLLEAGUES AND STUDENTS WALKING HAND IN HAND AND BUILDING THEIR IDEAS FOR A DEVELOPED NATION.

MR. ANEESH P C



CREATING MEMORIES!!!

Final year Industrial Visit to Dandeli and Goa

CHIEF EDITOR



Ms. SHABNUM SUHURA

STAFF EDITORS

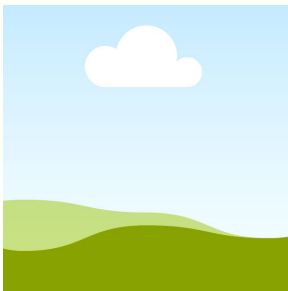


Ms. REEMA PIUS



Ms. CLYDIN P A

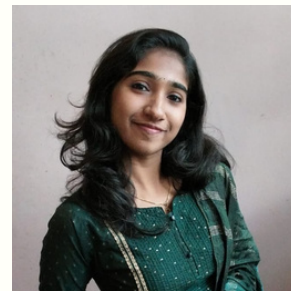
STUDENT EDITORS



Vivek Unnikrishnan
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S6 CE



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S4 CE



Ashila Anil
S6 CE



Muhammed Faiz KI
S3 CE

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MR. ANEESH P C