



SCMS

SCHOOL OF ENGINEERING & TECHNOLOGY

KARUKUTTY, 683576

August 2016- July 2017

DEPARTMENT OF CIVIL ENGINEERING

NEWSLETTER

VISION

To be a Department of excellence providing quality education and to engage in research activities in diverse fields of Civil Engineering.

MISSION

To impart quality education in Civil Engineering and mould technically competent, socially committed and ethically responsible professionals with a passion for lifelong learning.

WORKSHOP ON WATER PIPE LEAK DETECTION AND PIPE TRACING

SCMS Water Institute in collaboration with SEWERIN, GmbH, Germany, a pioneer in this area conducted a workshop on the topic “Water Pipe Leak Detection and Pipe Tracing” on September 26, 2016. Dr. Syed Ibrahim, Honorary Consul of Germany in Kerala & Director, Goethe-Zentrum, Trivandrum discussed about the importance of acoustic sensor technology which allows scanning the underground water distribution pipes from the surface of the earth without digging to identify the exact leakage location. Hands on training in the usage and application of leak detection and pipe locating technologies were provided to the faculty.



SOCIETY OF ENERGY ENGINEERS & MANAGERS (SEEM) STUDENT CHAPTER

Energy Audit

Selected students of first semester (Batch 2016-2020) were given an exposure to the training programme on “Home Energy Audits” by SEEM at Petro House, Kundannoor on 22nd September, 2016. In continuation to this, a training program on “Energy Audit” was conducted by Mr. Azeem K, Energy Consultant, Mentor of SEEM SSET Student Chapter on 15th February, 2017. The programme was attended by second semester UG students of batch 2016-2020. He discussed about identifying the quality and cost of various energy inputs, assessment of present pattern of energy consumption and its wastages and measures for energy conservation.

CIVIL ENGINEERING DEPARTMENT ASSOCIATION

Club Activities

Mix Design Workshop

A concrete mix design workshop was given to the seventh semester students (Batch 2014-2018) on 08th September, 2016. The session conducted by the M.Tech CASE students (Batch 8) was found to be very useful and informative for the students.

Workshop on Sustainable Construction, Environment and Climatic Change

A one-day workshop on “Sustainable Construction, Environment and Climatic Change” was organised for the fourth semester UG students and M Tech Environmental Engineering students in association with the Laurie Baker International School of Habitat Study, Thiruvanthapuram, IGBC Cochin Chapter and Nirmithi Kendra on 03rd February, 2017. The session was held by Dr. P.R. Sreemahadevan Pillai (Dean, LaBISHaS), Mr. B.R.Ajit (IGBC, Cochin Chapter Chairman), Er. Robert V Thomas (Regional Engineer, KESNIK) and Prof. V.K. Lakshmanan Nair (Zonal Co-ordinator, KESNIK).

INDUSTRY INSTITUTE INTERACTION

Hands-On Training in STADD Pro

Three-day training program on “Design of Water Retaining Structures of ETP and STP by STADD Pro” was conducted from September 4th 2017. An intense hands-on training was given to Ms. Seethalakshmi and Ms. Meenu Rose, members of SV Consultants, Chennai. The Analysis, Design and preparation of structural drawings of various components of STP and ETP was done.

Industrial Visit / Site Visit

Site visit to Pallivasal Hydro project was organised on 03rd September, 2016 for the fifth semester (Batch 2013-2017) as a part of Industrial-Institute- Interaction plans of the department. The visit gave the students valuable information about the power plant, transmission and

distribution of electricity. The gap between usage and generation of electricity by analysing the daily usage statistics of power consumption in Kerala was pointed out.

Fourth semester students of Batch 2015-2019 visited Ultra Tech RMC Plant, Edayar on 11th February 2017 as a part of their industrial visit to get acquainted with the different techniques used in the industries. The visit gave the students first-hand information regarding the functioning of RMC plant including the concepts of batching, testing, mix design of concrete etc.

Industrial visit to GEMS Modern Academy, Kochi's first prefabricated construction site was organised for the PG students (M.Tech CASE) on 18th February, 2017. The knowledge on the cost and time savings, quality, energy efficiency and aesthetics of pre-fabricated modular construction was gained from the visit.

A one-day industrial visit to Kuthiran Tunnel work in Thrissur district was organised on 3rd March, 2017 in accordance with the curriculum for the M.Tech CASE students. The visit gave the students an exposure to the dimensions and real-time practices adopted in the field.



Awareness Program on TEKLA Structural Designer

An awareness program on TEKLA Structural Designer was organised for the final year students Batch 2014-2018 on 13th February 2017. The session was conducted by Mr. Kwaja Moinudheen M A of Reliant Institute of Technology. The session provided students the knowledge on using the software to create and manage 3D structural models in concrete or steel.

TECHNICAL TALK/ SEMINAR/ TRAINING

Talk on Membrane Technology

A talk on the topic ‘Membrane technology’ was delivered by Prof. Dr. Johannes Fritsch to the seventh semester students of Batch 2013-2017 on 8th August 2016. Prof Fritsch is an internationally renowned expert in Environmental Engineering and have made remarkable contributions in Membrane Technology.

Concrete Mix Design workshop

Fifteenth Concrete Mix Design workshop was held at Ambuja Knowledge Centre, Kochi on 30th and 31st August, 2016 in which M.Tech CASE students took part. The workshop was organised to equip the students to be abreast with the recent revisions made in the mix design code. Theory sessions held in the forenoon enlightened the participants on the concrete ingredients, its properties and influence of various ingredients on various properties of concrete. A hands-on practice for slump checking trials for the design mix ratio was conducted in the afternoon session.

Training on “Designing Water Structures using STAAD Pro

An introductory training on “Designing Water Structures using STAAD Pro” was given to M.Tech Environmental Engineering students were conducted on 30th May, 2017. The hands-on training helped the students gain valuable knowledge and skills in using the software by “doing” instead of just watching.

Talk on Post-tensioning of Slab

A technical talk on “Post-tensioning of Slab” was presented by Er. Mirkasim Abu and Er. Ansa Habeeb of Post Tect Engineering Private Limited. The lecture was organized for the eighth semester students (Batch 2014-2018) On 7th April, 2017. They summarized about the experience available today in the field of post-tensioning in building construction and in particular the design and construction of post-tensioned slab structures.

Outreach programme on Remote Sensing and Geographical Information System (RS and GIS) Application in Water Resource Management

M.Tech Environmental Engineering students (Batch 2015 and 2016) was given an outreach programme on “Remote Sensing and Geographical Information System (RS and GIS)Application in Water Resource Management” from 22nd May, 2017.The9 –day programme gave an insight on the application of visual and digital remote sensing techniques and integration of the remotely sensed data in GIS in the management of water resources and prediction of natural water related hazards like flood and drought.

Talk on Technological innovations to solve water crisis

A talk on ‘Technological innovations to solve water crisis’ was delivered by Dr. P S Harikumar, Senior Principal Scientist, CWRDM to the eight semester students of batch 2013-2017 on 5th December 2017. He discussed about the role of technology in ending the global water crisis, from managing water supplies to intelligent irrigation.



NATIONAL TECHNOLOGY DAY CELEBRATIONS

As a part of National Technology Day Celebrations, a talk on “Technological Innovations to Solve Water Crisis”, Sponsored by Kerala State Council for Science, Technology and Environment was organised on May 12th, 2017. Dr. P.S. Harikumar (Senior Principal Scientist, Water Quality Division, CWRDM, Kozhikode) and Dr. Shaju Thomas (Head, Division of Environmental Education and Conservation Tropical Institute of Ecological Sciences, Kottayam) were the resource persons.



STUDENT ACHIEVEMENTS

Mr. Murali Krishna T. R., Mr. Aneesh Paul and Mr. Shyam V. Nair of sixth semester (Batch 2014-2018) bagged Second prize (from among 19 teams from various engineering colleges) in the ‘Concrete Cube Strength Competition’ conducted by the Department of Civil Engineering, Muthoot Institute of Technology and Science on March 29, 2017. The students received a cash prize of Rs. 3000.

They also won First prize in the Cube Strength Competition conducted by the Department of Civil Engineering, Govt. Engineering College Thrissur in association with ICI Kochi on 23rd to 27th February, 2017.





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