

Report of the Faculty Development Programme on Application of Remote Sensing, GIS and Total station in Civil Engineering

A three day KTU sponsored faculty development programme was organized from 1st to 3rd February, 2023 at the department of Civil Engineering, College of Engineering Pathanapuram on Application of Remote Sensing, GIS and Total station in Civil Engineering.

This was a three day Faculty Development Programme where various related sub topics were discussed in detail by eminent educationists and a very beneficial academic environment was experienced by the participants. The FDP was started on 1st february, 2023 with the inauguration ceremony. The programme was presided by by the Principal Dr. R Biju Kumar and dignitaries were welcomed by the Head of the department Mrs Deepa R. The programme was inaugurated by Dr. Girish Gopinath (Associate Professor (Remote Sensing & GIS) Head i/c Department of Climate Variability & Aquatic Ecosystem, KUFOS followed by an inaugural address. The overview of the FDP was given by coordinator Dr Siva Bala P. Felicitation was given by Administrative officer Mr Subramaniya pillai followed by HoD of Mechanical Engineering department Mr Thulaseedharan R, HoD of Computer science and Engineering department Mr Prasanth R. Vote of thanks was presented by Mrs. Shameena S, Assistant professor, department of Civil Engineering. The technical session was started after inauguration on the topic Introduction to Remote sensing and GIS in Civil and the speaker was Dr. Girish Gopinath (Associate Professor (Remote Sensing & GIS) Head i/c Department of Climate Variability & Aquatic Ecosystem, KUFOS).



He discussed the process of remote sensing and GIS , various applications of these powerful tools in Civil Engineering with case studies. The lecture was very beneficial and provided an insight view of the topics. The second session was on the topic Application of GIS and remote sensing in Transportation Engineering by Dr. Amal Raj (Assistant Professor Department of Civil Engineering, Mar Baselios College of Engineering and Technology Nalanchira. He discussed transportation planning using GIS and remote sensing. Various applications of GIS and remote sensing in traffic Engineering, roadway management, pavement management and their related software. On day 2, first session was handled by Dr Suresh Francis (Scientist, Kerala State Remote Sensing and Environment Centre (KSREC), Thiruvananthapuram, Kerala.) on the topic Geospatial Technology in Natural Resource Management. The topics covered are satellite remote sensing, interpretation of map, system of remote sensing and case studies of his own work under mining, wetland, hazard management. He also explained the software gramam. The session was very useful to the participants.



Second session was handled by Mrs Nimmy, surveyor, SAS Surveyors and Engineers, Alappuzha under the topic Contouring and mapping in total station. In this session mapping and contouring preparation of datas was given by using autoplotter. Third day of both sessions was hands-on training on the total station . First session field experiment using total station, area was surveyed in the field using total station and in the second session surveyed data was plotted using software autoplotter 19.0 Professional. A valedictory function was held after the completion of the session. Principal Dr R Bijukumar and HoD Civil convey the wishes to the participants. The summary of the FDP was given by Dr Siva Bala P ,fdp coordinator. Certificate of participation and study material was distributed to all the participants. Vote of thanks was presented by Shahas S, Assistant professor in Civil Engineering.



