COLLEGE OF ENGINEERING
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FDP on Advanced Surveying

4 day FDP on "*Advanced Surveying*"

Date: 23.01.2016 – 27.01.2016

Venue: Seminar Hall 6, MVJCE, Bangalore

Civil Dept, MVJCE has organized Four Day FDP on "ADVANCED SURVEYING". The program led by Dr K Asha, Civil Dept, MVJCE. The purpose of the program was to develop awareness about popular softwares used in Civil Engineering & their applications.

Inauguration ceremony was conducted in the seminar hall 6, MVJCE. The workshop participants included 2nd year students of Civil Dept. The programme started at 10.00 am by prof Ravi kant Talluri, Associate Professor, MVJCE who welcomed the participants.

Speakers: Prof Ravi kant Talluri

Benefits of the event:

The students were made aware about the advanced techniques used in civil engineering & their applications. Civil Engineers should know the benefits, applications and disadvantages of each.

Abstract of the subject:

Surveying or land surveying is the technique, profession and science of determining the terrestrial or 3 Dimensional position of points and distances and also the angles between them. A land surveying professional is also a land surveyor. Land Surveyor plays a crucial role in the field of Civil Engineering. These points are usually on the surface of the Earth, and they are often used to establish land maps, and boundaries for ownership, locations, like building corners or the surface location of

subsurface features or other purposes required by government or civil law, such as property sales. Surveyors work with elements of geometry, trigonometry, regression analysis, physics, engineering, metrology, programming languages and the law. They use equipment like total station, robotics total station, GPS receivers, retro reflectors, 3D scanners, radios, handheld tablets, digital levels, subsurface locators, drones, GIS and surveying software. Modern surveying is unimaginable without the use of electronic equipment and information technology.

EDM: Measurement of distance is accomplished with a modulated microwave generated by a small solid state emit within the instruments optical path and bounced off of the object to be measured.

TOTAL STATION: Basic principle of total station integrates the functions of a theodolite for measuring angles, an EDM for measuring distances, digital data and a data recorder.

GLOBAL POSITIONING SYSTEM (GPS): Originally Navaster GPS is a space based radio navigation system owned by the United States government and operated by the United States air force. The GPS system system does not require the user to transmit any data, and it operates independently of any telephonic or internet reception, though these technologies can enhance the usefulness of the GPS positioning information. The United States government created the system, maintain it, and makes it freely accessible to anyone with a GPS receiver. However, the US government can selectively deny access to the system, as happened to the Indian military in 1999 during the Cargill war.

FDP helped the participants (around 28) in enhancing their knowledge about advance surveying and various technologies presently incorporated with the works.