



SAPTHAGIRI COLLEGE OF ENGINEERING

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DEPARTMENT OF CIVIL ENGINEERING

REPORT ON 3 DAYS FDP ON “ADVANCED SURVEYING TECHNOLOGIES USING TOTAL STATION”

A 3 days Faculty Development Program on “Advanced Surveying Technologies using Total Station” was conducted at Sir.M.V.Seminar Hall by department of civil engineering from 31st January to 02nd February 2019 in association with ICI and Sapthagiri College of Engineering Bangalore. The Resource Person for the Program was Hemanth Reddy. The program was attended by all the HOD’s of Sapthagiri College of Engineering and the program also included participants(faculties) from different engineering colleges in and around Bangalore.

Master of Ceremony(MOC) for the entire program was Mrs. Navya N (Assistant Professor, Department of Civil Engineering). After self introduction of MOC, Mr.Rajiv (Associate Professor, Department of Civil Engineering) delivered the welcome address followed by the Pleasant Prayer song by our 4th sem student Ms.Nikhila. Further Dr.R.L.Ramesh (Head Of the Department, Department of Civil Engineering) explained us about the importance of FDP program and its necessity for the faculties. Further, the gathered lighted the lamp and seeked the blessing of Dr.Sir.M.Visweswaraya. Following this, Dr.K.L.Shivabasappa(Principal, Sapthagiri College of Engineering) explained us the necessity of having the practical knowledge in Civil Field. He also enlightened the necessity of surveying with his own personal experiences. Further Mr.Akshay J (Assistant Professor, Department of Civil Engineering) briefly introduced the resource person of the program Hemanth Reddy. Later Mr.Hemanth Reddy also enlightened us about the need of Total Station and how is he helping the needy unemployees by creating the job opportunity by training about the Total Station. He also said that he is helping the Civil students of the final sem of different engineering colleges by providing them training as per the industry expectation and helping them to get placed easily. Followed by his motivational explanation about the employment and the quick work done using Total Station, the program came almost to an end and the vote of thanks for the morning indoor session was given by Mrs.Pallavi G.A(Assistant Professor, Department of Civil Engineering). After the vote of thanks, the MOC Mrs.Navya N thanked the gathering and asked the participants to stay there for further theoretical and practical sessions for the next 2 days. This was followed by the Tea Break for everyone who had gathered.

31/01/2019(Day1)-

After the Tea Break, the participants in and out of Sapthagiri College of Engineering and our Beloved HOD, Dr.R.L.Ramesh assembeled at Sir.M.V.Seminar Hall for the theoretical Session.

Hemanth Reddy(Resource Person) started explaining about the need of Total station and highlighted the seven basic steps in total station. This included the introduction to surveying and methodologies. , Importance of accurate survey data to a civil engineering projects & Impacts of wrong surveys with live project experience examples, Brief on latest technologies and Instruments used as on today (Total Station, 5 DGPS, Li DAR, Drone UAV), Introduction to total station and seven basic steps in learning the total station operation. Further he circulated the 3 point Traverse sheet to all the participants assembled, which would be much helpful to note down the further readings in the field. After a lecture of about 45minutes, all the participants were asked to gather in the field (Sapthagiri College of Engineering Campus) for the practical demonstration.

Groups were made to ensure each and every participant will get the chance to operate the total station instrument.(Two total station instruments was available in Sapthagiri college of engineering and one total station instrument bought from the resource person was utilised for all the three days FDP). Prior to the lunch break, Mr.Hemanth Reddy practically demonstrated the basic seven steps of total station.

Post Lunch Break, the participants started practising individually the seven basic steps of total station for being perfect at their end. This lasted till the evening and the session ended for the day1.

01/02/2019(Day2)-

In the beginning session for day2, the participants were again practising the seven steps of total station in order to ensure the perfectness. Further Mr.Hemanth Reddy practically demonstrated the 3 point traversing procedure. He also explained us how to enter the readings obtained from 3 point traverse procedure in the sheet provided on day1. Followed by his practical demonstration, the participants repeated the closed traversing procedure by repeated practice till the lunch break. Post lunch break, participants were given the demo and practice of Topographical Survey, area calculation, marking layouts etc.Till the end of the session for day2, the participants completely practised what was taught on day2.

02/02/2019(Day3)-

In the morning session of day3, participants practised what was taught on day2. Post lunch break after few more practise, all the participants were asked to again gather at Sir.M.V.Seminar Hall. Our beloved HOD, Dr.R.L.Ramesh thanked the resource person Hemanth Reddy for sharing his knowledge with us. Feedback was taken from all the participants about the pros and cons of the FDP. Participants were given the chance to ask questions/doubts which they had about total station and the doubts were all answered. Further, certificates were given to all the participants and a token of memory was given to Resource Person Hemanth Reddy. Due to the refreshments and accommodation arrangements made by our HOD and due to the impartial delivery of the practical knowledge by Hemanth Reddy the FDP received lot of positive feedback and it paved the way for participants to implement their ideas in projects in Total Station.

