

MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE (UGC - AUTONOMOUS)

One-day hands-on training programme on Advanced Non-Destructive Testing For In-Situ Concrete Organized by Civil Engineering - MITS 1st September 2017



Report Submitted by: Mr Sanjay Kumar A C, Teaching Assistant, Dept of Civil Engineering, MITS

Guests: Sri Nagesh B S, CEO-Samhitha Innovations, Malleshwaram, Bengaluru
Sri Ravikumar M B, Technical director, Samhitha Innovations, Malleshwaram, Bengaluru

Participants: III & IV B.Tech Civil Engineering Students.

The department of Civil Engineering organised a One Day Hands on Training Programme on 'Advanced non-destructive testing for in-situ concrete' on 1st September 2017. This programme was conducted with the objective to bring awareness among Civil Engineering students on the latest technology and latest equipment to conduct Non-destructive test.

Programme Inauguration:

Sanjay Kumar A.C, Teaching Assistant and convenor of this programme welcomed all the dignitaries, faculty and students to the programme and expressed his gratitude to the Management and Principal for giving permission and financial support to organise the programme. Dr P Perumal, Sr. Professor and Head of Civil Engineering department addressed the gathering. He briefly explained the motto of the programme. He explained about different types of Non-destructive methods to find the compressive strength of the structure. Later, Dr C Yuvaraj, Principal emphasised the importance of Non-Destructive testing equipments in the field. The resource person Sri Nagesh B S, CEO, Samhitha Innovations explained about his company, the major equipment the company supplies, and Non-destructive testing equipment they have. He explained the importance of the each equipment they brought (1. Rebound hammer. 2. Ultrasonic pulse velocity test. 3. Profometer. 4. Profometer corrosion). Finally, Sri Ravi Kumar M B, Technical director explained the job opportunities in this field.

Valedictory function:

Finally, Dr Meenambal, Sr.Professor, department of Civil Engineering proposed vote of thanks in the valedictory session. She thanked our Correspondent, Chairman, Principal, Head of the Department, Vice Principals, Deans, Resource persons, Staff members and the students of the Department for extending their support in conducting this programme in a grand manner.

Training: Resource persons brought the following NDTs equipments

1. Rebound hammer
2. Ultrasonic pulse velocity
3. Profometer
4. Profometer corrosion.

Morning session of Training: The first session of training started at 12.15 PM. Mr.Ravi Kumar M.B, started giving the demo of Rebound hammer. He explained the uses of rebound hammer, how to take the readings. He called some of the students and made them to take readings.

Next, he gave demo of Ultrasonic pulse velocity instrument. He explained the every set up of using the equipment. He tested some of the concrete cubes and explained how to take readings.

Afternoon session of Training: It started at 2.00 PM. Mr.Nagesh B.S explained the uses of Profometer. Mr.Ravi Kumar M B started explaining the experimental set up, and the use of profometer. Next, he did the test on the structural column and explained how to use the equipment to the students batch wise.

Finally, Mr.Ravi Kumar M B took students to under construction building in the campus to test the profometer corrosion. He explained the uses of profometer corrosion. He demonstrated the operating method of the equipment. Later, he conducted the test on the structural column to find the percentage of corrosion happened to the rebar inside the column.

Momento distribution:

Mr.Sanjay Kumar A C invited the resource persons and Head of the department onto the dais. He called some of the students to give feedback regarding the training. Finally, Dr.P.Perumal and Mr.Amarnatha Reddy Y felicitated the resource persons with momentos.

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