



### Report on the “Digital Land Surveying using DGPS and Drone”

The Department of Civil Engineering in association with the **Association of Consulting Civil Engineers (India)** and **Institution of Engineers (India)** organized the one day Hands on Training on “**Digital Land Surveying using DGPS and Drone**” for the students of ACCE (I) - student chapter PSG iTech on **29<sup>th</sup> April 2023 (Saturday)**. Dr. M I Abdul Aleem, Head of the Department welcomed the gathering with his presidential address. He stated the importance of latest technologies in the field of surveying. Followed by, Ms. P. Mirudhubasini, Final Year student, President, ACCE (I), Student Chapter, PSG iTech, gave a brief introduction about the Chief Guest of the program.

Er. Pravin, Managing Director, Digital Land Surveying Pvt. Ltd, Coimbatore addressed the gathering in the topic of “**Significance of Land surveying and Mapping - past and present**” He elaborated the techniques which was used before 100 years and how it evolved in the present days, also he insisted the students to make use of this opportunity in the field of surveying.



**Dr. M I Abdul Aleem, Head of the Department, Civil Engineering presenting a memento to the resource person Er. Pravin, Managing Director, Digital Land Surveying Pvt. Ltd, Coimbatore**

The Hands on training has been planned for two sessions.

Session - I (Forenoon) – DGPS (Differential Global Positioning System) Technology and,  
Session – II (Afternoon) - Drone Surveying.



**Session - I (Forenoon) – Training on DGPS Technology:**

The Resource person explained the principles of DGPS technology and how it can be used in land surveying. Participants were shown how to set up a DGPS system and how to use it to obtain accurate location coordinates. In the field, he also demonstrated how to use the DGPS system to map out an area and create a detailed topographic map.



**Resource Er. Pravin explained how to set up and use of DGPS in the field.**

**Session – II (Afternoon) - Drone Surveying:**

In the afternoon session, resource person explained how drones can be used to capture high-resolution images and videos of an area from above. Participants were shown how to set up a drone, how to fly it, and how to capture images and videos using the drone's camera.



**Resource person, faculty coordinators and students were practicing the operations of drones in the field**

Finally, participants are actively interacted with the resource person, and cleared their doubts regarding the applications of DGPS and Drone in the area of surveying.