

1 | HANDS ON WORKSHOP ON 2D DRAFTING AND 3D MODELING USING CAD

In this age of fast growing technology and advancement in all fields has made compulsory for anyone to be updated at all the time. Engineers especially need to keep pace with this advancement. Which can only be attained if an engineer possesses proficient knowledge advanced softwares, which are globally used in this modern era, of their respective fields. Keeping all these aspects in mind, on 31st August 2019, PRARAMBH-The GCET Project Club has organized a workshop on “HANDS ON WORKSHOP ON 2D DRAFTING AND 3D MODELING USING CAD”, for the 2nd year mechanical and mechatronics engineering students. To teach them basics of one of the highly recognised CAD 3D modelling software, namely PTC CREO Parametric. In order to make them aware about its capabilities, and widespread of its utility in the Mechanical/Mechatronic engineering domain.

The workshop was coordinated by the students of PRARAMBH under the guidance of Dr. Saurin Sheth (Convener, PRARAMBH) and Prof. Aakarsh Jain (Faculty Coordinator). Whereas, student coordinators of the event were Abhishek Tripathi, Chirag Kanagiyani, Chirag Thakar, Harsh Purohit, and Shivam Sharma. Among them Chirag Kanagiyani from Mechanical final year and Chirag Thaker from Mechatronics final year have addressed the students during the event. The workshop started at 8:30 AM with great enthusiasm by participants as well as the support team.

The whole workshop was divided into 3 sessions. Wherein the first session included introduction to various CAD packages available for designing and drafting, different applications of these packages from the industrial perspective, and importance to learn them, for the students as well as industrial personnel.

Further, in the second session of the workshop, students were enlighten about the sketch module and the assembly module available in the CREO parametric 2.0 software. Where the students have been taught the features available the sketch module used to prepare 2D/Isometric drawings, then how to convert the 2D drawing into 3D part, thereafter how to assemble those parts, as whole. Moreover, the session help the students to bridge the gap between, what they have learnt in the subject Engineering Graphics and the actual use of it in the engineering applications, by providing them real-life examples of majority of the features they have come across in the session.

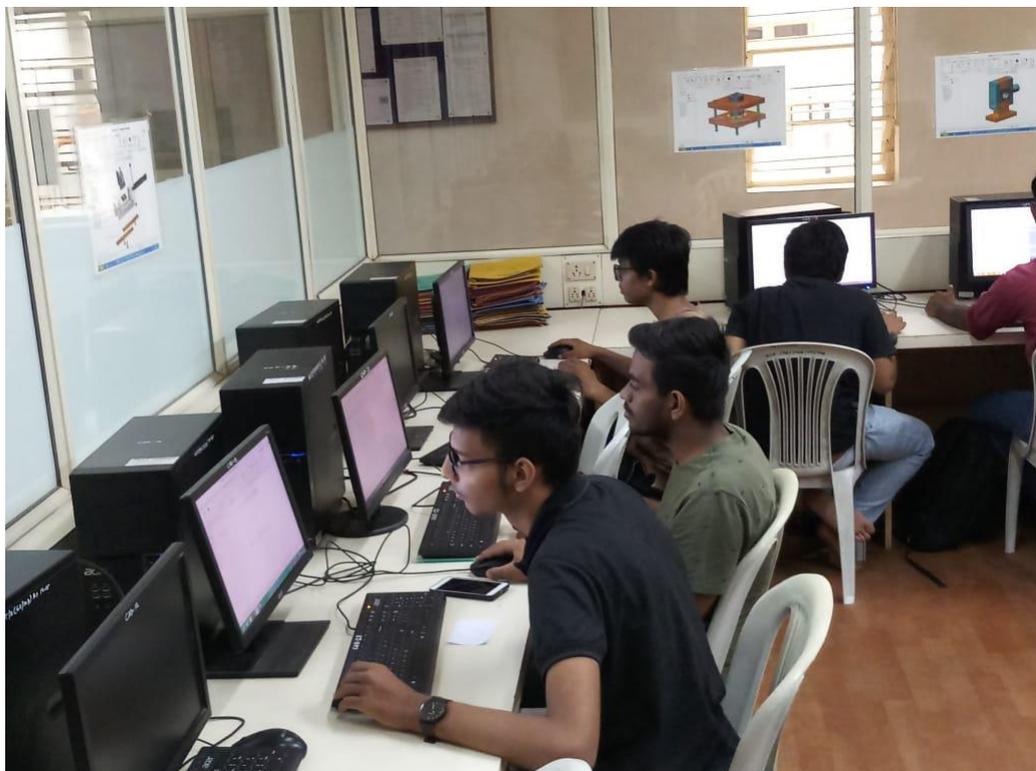
Finally, for the third session GCET CAD lab has been taken into use, to avail the participated student's individual computer equipped with the PTC CREO 2.0 software, to give them insights of what they have learnt so far. In this session hands-on exercise is being carried out, under the keen supervision of the event coordinators. Where students have asked to solve few CAD problems given to them.

The workshop ended at 10:30 AM and the feedback was great with suggestion of organizing more workshops on the advanced CREO functions like mechanism module, simulation, etc. in the future.

Here is the some valuable moments of workshop in form of photographs;



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