



POORNIMA UNIVERSITY

Your Dreams Our Goal

Report on Computer Aided Engineering (CAE)

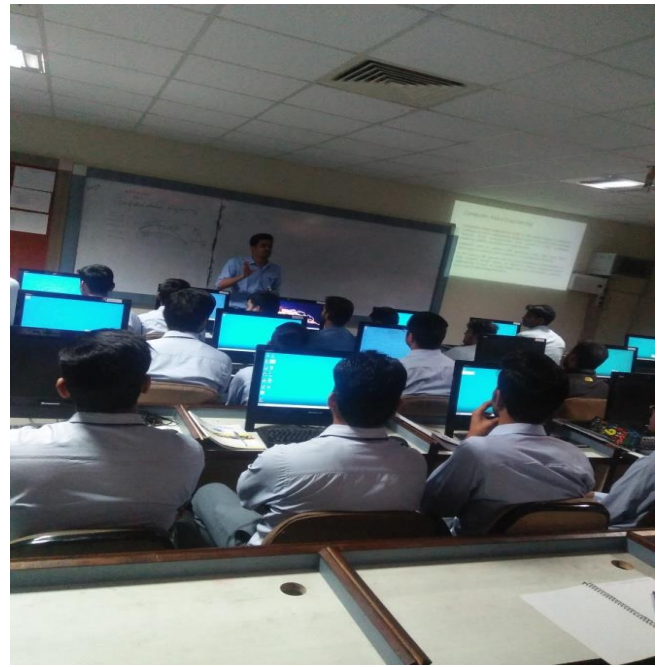
(February 26, 2018, Room No. B-57, Organized by Mechanical Department, Poornima University)

With the increasing trend of automation and control system in production field and to reduce the cost of manufacturing with the help of simulation, Mechanical Department took an initiative and organized a one-day workshop on Computer Aided Engineering (CAE) on February 26, 2018. The workshop was presented by the Assistant Professor Mr. Mahesh Chand Saini and Mr. Dhruv Maggu. The workshop was designed in three modules that were

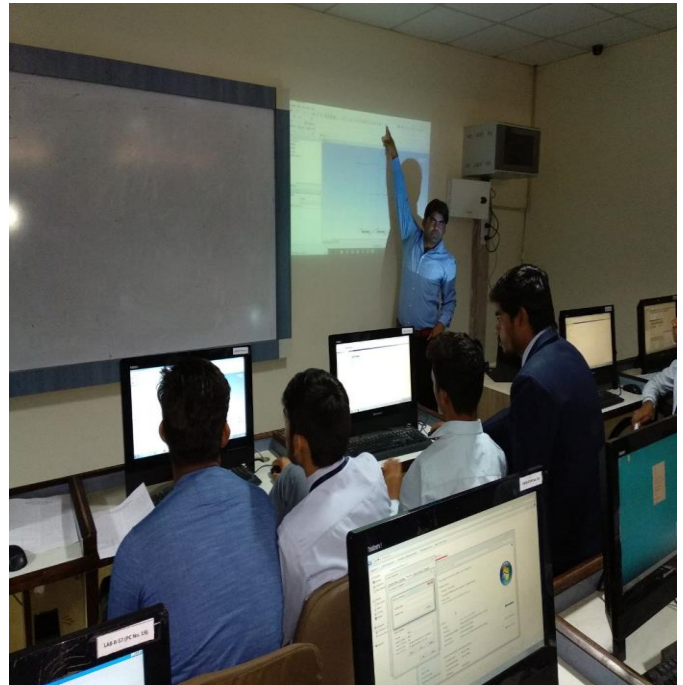
- Introduction of ANSYS Software
- Structural Analysis
- Fluid Flow and Thermal Analysis

Introduction:

Students were given a brief idea of ANSYS Software in which they came to know how to use theoretical knowledge of subject in the computational manner. Computer aided engineering is the board usage of computer software to aid in engineering analysis. With the help of computer aided tools, we can solve complex engineering problem easily. The Software used to analyze the CAD geometry tools that have been developed to support these activities are considered CAE tools. Students participated in large number i.e. around 40 students from various departments and various colleges such as Mechanical, Civil and Electrical.



In the structural analysis session, students were given a problem to analyze the application of stress and strain due to load applied on the beams. In the next session students were briefed about the flow of fluids in pipe using fluid flow fluent feature of ANSYS Software. Students worked with great enthusiasm and enjoyed calculating drag and lift force on the fluid.



At the end of the workshop, students were given certificate of participation by Dean, HOD of Mechanical Engineering and students were encouraged to participate in such workshops in large number in future.

