

# SAE Collegiate Club – BSA Crescent Engineering College

## Two day Workshop

### Industrial Applications of FEA -February 28 and 29, 2008

A two-day workshop was organized by Department of Mechanical Engineering in association with SAE Collegiate Club on Feb 28 and 29, 2008 for the benefit of SAE student members. The students from M. E CAD, M.E CIM and final year B.E Mech students participated in this program.



The program was organized to address the practical difficulties experienced by the students in solving the industrial problems using FEA. The program consisted of both theoretical and practical elements.

Prof. V.Geethaguru, Head of the department, inaugurated the program.



Mr.Robin Roy of MODINE, Chennai delivered a lecture on General CAE approach with an overall view on basics of FEA.



The technique of selecting suitable elements and material property for a particular component to have better meshing was also dealt. He insisted to have exact cad model of the component under analysis, to get an excellent solution. We are thankful to Mr.Robin Roy who gave us an insight on FEA and put us on right way to start up.



Mr.Einsten of NUVENT Technologies, Chennai gave us a commercial approach on how to visualize customer's problem and to solve it accordingly. The basic method of meshing on Altair Hypermesh software was explained to students with a practical example of an automobile transfer case. The various meshing tools such as Tet, Hexa and etc., were also explained. The project planning in CAE in accordance with the customer's requirement was presented.



Mr.T. Venketasan, Senior Lecturer and Ms. S. Zubaitha Kathoon Bee of our department highlighted the basic tutorial on meshing various

geometries in Altair Hypermesh. Excellent softwares like COSMOS and FEMAP were introduced to the students with suitable examples to show the capacity of the softwares.



Mr.S.Shanmugam, Director, Design Desk India (P) Ltd, Chennai gave an informative presentation about failure analysis of an industrial problem. Practical method of approaching an industrial problem was explained with a real time industrial example. He enlightened the students about the importance of analyzing software in improving the product quality and customer satisfaction that directly leads to the organizations improvement.