MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE

One Day Training Programme on
"INTRODUCTORY TRAINING ON ANSYS DESIGN MODELER"

The training program on Introductory Training on ANSYS DESIGN MODELER was conducted by the Department of Mechanical Engineering on 10th March 2014. A total of 60 Prefinal Students have attended the program.

Report by Rayudu Peyyala, Coordinator-IIIC

The students of ME are having sound knowledge in theory but not confident in handling the Analysis Part. This made them to be less confident in handling projects. Keeping in view the importance of projects, we have planned the "ANSYS MODELER" for ME students. It is an Industry Institute Interaction Program organized under TEQIP II.

The details of the training are as follows:

✓ Introduction to ANSYS software which included both Ansys MAPDL & Workbench. Demonstration of the same was done. The fatigue capabilities of ANSYS tool were discussed including both stress & strain lifting capabilities. Some problems on the same were demonstrated.

✓ Case study - "Disc Topology Optimization for LCF & Burst Margin": The case study basically involved the application of Ansys tool for optimizing the weight of the high pressure compressor disc. It involved calculation of over speed margin, burst margin & lifting. Neuberization technique was employed to calculate equivalent plastic strain which was further used for LCF lifting.