ADHI
COLLEGE OF ENGINEERING & TECHNOLOGY

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SKILL DEVELOPMENT PROGRAM (SDP) ON FEA & CFD USING ANSYS

Date of SDP: 10-03-2017 and 11-03-2017

The technical session and hands on training were handled by Mr. Krishna Chaitanya, Application Engineer from ARK Info Solutions, Hyderabad, Telangana.

The SDP was covered in the following topics:

Spaceclaim, Design Modeler, Meshing, Fluent & CFD - Post.

28 students from III year, 25 students from IV year and 20 faculty members of Mechanical department actively participated in the SDP.

The specific objectives of the SDP were as follows:

➢ Understanding basics of CFD analysis
➢ Foundation for students project works
➢ Insight for Faculty PhD works

The following multifaceted nature of the problems were addressed in ANSYS workbench

1. Structural analysis on hollow cylinder
2. Analysis of velocity profile in Straight pipe
3. Analysis of velocity & temperature profile on T pipe
4. Aerodynamics of spoiler
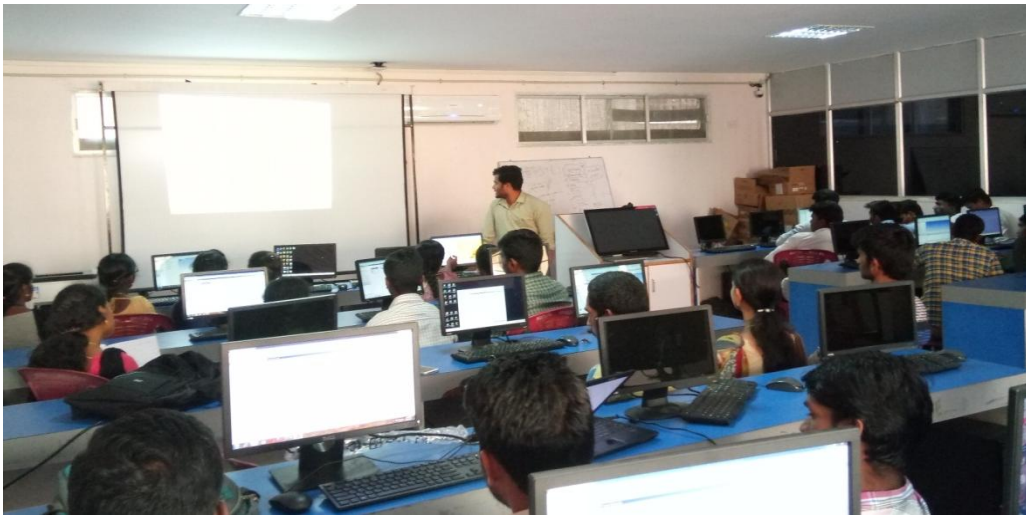5. Natural heat transfer analysis on source in a room

Highlighted an opportunities in CFD analysis.

The SDP could be fruitful to the students indeed while doing their project works on analytical study on structural and thermal problems.

Mr. Krishna Chaitanya addressing the participants of SDP

Mr. Krishna Chaitanya imparting CFD with engineering problems

Mr. Krishna Chaitanya training the participants on CFD