

Department: ME | Date: 15th - 17th December, 2021

**A Three Day Workshop on
“Practical Applications of Finite
Element Method using ANSYS
Workbench”
15 – 17, December, 2021**

About the Program:

To develop industry readiness of the students, the Department of Mechanical Engineering at Sree Vidyanikethan Engineering organized A Three Day Workshop on Practical Applications of Finite Element Method using ANSYS workbench from 15 – 17, December, 2021 by the Dr.K.L.Narasimhamu, Professor, Mr.T.Naveen Kumar and Mrs.C.Navya , Assistant Professors of Department of Mechanical Engineering.

Resource Persons Mr.M.Mahesh, Operations Manager and Product-Head, and Mrs. G. Madhu Latha, Program Coordinator, G-Tec Computer Education Tirupati gave clear insights on practical applications of FEM in industry. He enlightened the case studies from real industrial problems. During three days students were trained to analyses structural problems, Thermal problems and Vibrations Problems using ANSYS Workbench.

DAY 1:

The programme progressed with the inaugural lecture at 09:30 am by Chief Guest and Speaker Mr.M.Mahesh, Operations Manager and Product Head- Technical, G-Tec Computer Education, Tirupati. Mr.Mahesh emphasized on the significance of Finite Element Method in the industrial scenario. The speaker of the program Mr.Mahesh enlightened on the ANSYS graphical user interface and explored the applications of ANSYS modules for solving various practical problems.

The other resource person Mrs.G.Madhu Latha , Program Coordinator, G-Tec Computer Education, Tirupati coordinated the students during Hands-on Training Sessions.

Further, the speaker, discussed the following topics of the program in detailed as mentioned below:

1. Analysis of Trusses with Hands-on Training
2. Analysis of Beams and frames with Hands-on Training



Dr.R.Satya Meher, HOD, ME addressing the gathering in the augural session



Day 1: Mr. Mahesh, Operations Manager delivering lecture

DAY 2:

During Day 2 lectures, the Speaker discussed the practical applications of FEM in industry emphasizing on the following topics:

1. Plane Stress and Plane Strain Analysis with Hands-on Training
2. Analysis of Axis- Symmetric solids with Hands-on Training



Day 2: Mr. Mahesh, Operations Manager delivering lecture on Plane Stress and Plane Strain Analysis with Hands-on Training

DAY 3:

During Day 3 lectures, the Speaker discussed the analysis the 3D solids in ANSYS, analysis of Composites system using multipoint constraints, Thermal and vibration problems.



Day 3: Mr. Mahesh, Operations Manager delivering lecture on analysis of Composites system using multipoint constraints, Thermal and vibration problems

Coordinator: Dr. K. L. Narasimhamu, Professor.

Co-Cordinators: Mr.T.Naveen Kumar , Assistant Professor.

Mrs.C.Navya , Assistant Professor.