



Late Shri. Vishnu Waman Thakur Charitable Trust's

VIVA Institute of Technology

Approved by AICTE, New Delhi, DTE, Government of Maharashtra, Affiliated to University of Mumbai
At- Shirgaon, Post-Virar (E.), Tal-Vasai, Dist-Palghar – 401 305.

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Department of Mechanical Engineering

Topic Name:

AICTE-ISTE Approved Five Days Short Term Training
Program on “Advanced FEA Training Using ANSYS
Organized by Mechanical Engineering Department”

Name of the Guest Speakers:

Mr. Amit Nirmal (Director, Shirsh Design Solutions Pvt Ltd.)
Mr. Ashish Wajir (Chief Technical Officer, Shirsh Design
Solutions Pvt Ltd.)

Date:

25th June 2018 - 29th June 2018

Time:

9.00 am to 4.00 pm

Programme Summary/Details:

Technology is changing rapidly from the past few decades and will continue in future too. The emergence of new technologies, spurred by intense market competition has led to developments of innovative products and processes. The huge competition in the market puts tremendous pressure on the industries to launch reasonably priced products in short time, making them to rely more on virtual tools (CAD/CAE) to accelerate the design and development of products. Hence, it is essential to implement the advancements in Design methods to compete and survive in the arena of global Technology. Finite Element Analysis (FEA) is an integral part of design for automotive, aerospace, civil construction, consumer & industrial goods industries. FEA is basically a numerical technique to find approximate solutions but with the use of design software's like ANSYS it makes easy solving complex elasticity and structural analysis of problems. ANSYS is a general purpose software used to simulate interactions of all disciplines of physics, structural, vibration, fluid dynamics, heat transfer and electromagnetic for engineers. ANSYS enables to simulate tests or working conditions, enables to test in virtual environment before manufacturing prototypes of products. It integrates simulation technologies and parametric CAD systems with unique automation and performance. So, analysis using ANSYS is the basic need of almost every type of manufacturing and production unit today.

A crucial step in preparing for the future will be the development of a technical foundation through research by industry, academia and government institutions which must be guided by a clear vision of Automation Technology in the next century and an understanding of the fundamental challenges that must be met to realize this vision. This workshop aims at exposing research scholars, academicians and practicing engineers to implement and use ANSYS for analysis of complex problems.

The objective of the ISTE Approved STTP was

- To introduce finite element method to the Faculty/ Participant members so that they are equipped to solve various problems of engineering, sciences and industries.
- The course will be very useful to those who do FEA and FVM based numerical simulations using commercial software packages such as ANSYS.
- To provide a clear idea of the FEM starting from the fundamental concepts to more advanced topics.

This was the Third ISTE approved program specific Short Term Training Program conducted by Mechanical Engineering Department in the college.

The inauguration was attended by Principal Dr. Arun Kumar sir, Miss. Niyati Raut H.O.D, Mr. Amit Nirmal Director, Shirsh Design Solution Pvt Ltd., Ashish Wajir Chief Technical Officer, Shirsh Design Solutions Pvt Ltd.; along with the faculties of the college and participants.

A total of 23 faculty members participated in the One week Short Term Training Program conducted. The overall feedback of the Training Program was encouraging and was highly rated by the participants.



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