



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.

Tel.: 777 000 2544 • Website : www.viva-technology.org

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Department of Mechanical Engineering

Topic Name:	ANSYS (Engineering Simulation) Immersive Course
Name of the Guest Speaker:	Faculty, Department of Mechanical Engineering
Designation:	Assistant Professor
Organization/Institution:	Viva Institute of Technology
Date:	December 30th, 2019, to January 4th, 2020

Programme Summary/Details:

From December 30th, 2019, to January 4th, 2020, the Department of Mechanical Engineering at VIVA Institute of Technology hosted an immersive bridge course on ANSYS (Engineering Simulation). This exceptional course aimed to provide students with a distinctive and all-encompassing understanding of ANSYS software and its practical applications in engineering analysis and simulation.

The course curriculum delved into a range of modules, unraveling the core principles of ANSYS. Students embarked on a journey exploring solid modeling operations, meshing techniques, boundary conditions, and solvers, while also delving into invaluable tips and tricks for optimizing problem-solving efficiency. Furthermore, participants were immersed in ANSYS Workbench, navigating the graphical user interface and engaging in analyses such as static structural analysis, modal analysis, thermal analysis, and contact recognition.

Active engagement and hands-on experiences played a pivotal role throughout the course. Students eagerly immersed themselves in practical exercises and training sessions, allowing them to apply ANSYS in tackling real-world engineering problems. This approach enabled them to master the interpretation of simulation results and enhance their problem-solving prowess. Emphasis was placed on precision, accuracy, and the astute utilization of ANSYS for comprehensive engineering analyses. Upon completion of the course, students not only acquired a comprehensive skill set in ANSYS software but also developed an unparalleled foundation for engineering analysis and simulation. They honed their expertise in applying advanced analysis techniques, selecting optimal meshing methods, and deciphering simulation outcomes with precision. In summary, the ANSYS bridge course at VIVA Institute of Technology provided an extraordinary and unrivaled opportunity for students to immerse themselves in the realm of engineering simulation. The course equipped participants with unique insights, valuable



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skills, and a profound understanding of ANSYS, propelling them toward success in their future pursuits within the dynamic field of mechanical engineering.