



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**

<b>Topic Name:</b>	Bridge Course on Advanced SolidWorks
<b>Name of the Guest Speaker:</b>	Faculty, Department of Mechanical Engineering
<b>Designation:</b>	Assistant Professor
<b>Organization/Institution:</b>	Viva Institute of Technology
<b>Date:</b>	July 3rd to July 7th, 2017

#### **Programme Summary/Details:**

From July 3rd to July 7th, 2017, VIVA Institute of Technology's Department of Mechanical Engineering organized a bridge course on Advanced SolidWorks. The course aimed to provide students with an in-depth understanding and practical skills in utilizing SolidWorks, a leading computer-aided design (CAD) software, for advanced engineering applications.

The syllabus for the course encompassed various modules, each focusing on different aspects of Advanced SolidWorks. Students were exposed to advanced features and functionalities, enabling them to create complex 3D models, perform simulations, and generate engineering drawings. The modules covered topics such as advanced part modeling, assembly design, surface modeling, sheet metal design, and finite element analysis (FEA) using SolidWorks Simulation.

Throughout the course, students actively engaged in hands-on exercises and projects to apply the concepts learned. They gained proficiency in utilizing SolidWorks to tackle real-world engineering challenges, improving their design capabilities, and enhancing their problem-solving skills. The course emphasized the importance of accuracy, efficiency, and good design practices in utilizing SolidWorks for engineering applications. By the end of the course, students developed a strong foundation in utilizing SolidWorks for advanced engineering design and analysis. They acquired the necessary skills to create intricate 3D models, conduct assembly design analysis, apply surface modeling techniques, and perform FEA using SolidWorks Simulation. Overall, the bridge course on Advanced SolidWorks provided students with a comprehensive understanding of the software's advanced features and their practical applications in the field of mechanical engineering. The course equipped them with the necessary skills to tackle complex design challenges, enhancing their ability to contribute effectively to various engineering projects in the future.



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