

# **GOVERNMENT POLYTECHNIC VALSAD (629)**

## **DEPARTMENT OF MECHANICAL ENGINEERING**

### **REPORT ON EXPERT LECTURE**

The department of Mechanical engineering and CAD-CAM engineering of Government Polytechnic Valsad organized an expert lecture for the third semester students on “Product Design Cycle using CAD Software” on 11-10-2023.

The Guest speaker Mr. Kaushik Patel, CEO, CAD Training Center Valsad, was heartily welcomed by Mr. B. N. Patel, Head of the department of Mechanical.

The speaker introduced the CAD or computer-aided design and drafting (CADD), is technology for design and technical documentation, which replaces manual drafting with an automated process. CAD software refers to a type of software program used by designers and engineers to create two-dimensional and three-dimensional models of physical components. They introduced the basic concept and main features of Autocad and Solidworks software. A two dimensional (2D) CAD models are flat, two-dimensional drawings that provide overall dimensions, layouts, and information needed to reproduce or build the subject. A three-dimensional (3D) CAD model provides greater detail about the individual components and assemblies of a physical object. They demonstrate the various autocad 2D and 3D commands by drawing mechanical components and demonstrate the assembly drawing and solid models in solidworks.

As per the feedback received from the participants it was a very good learning experience, the lecture helped them in understanding the Product Design Cycle using CAD Software and how to apply the concepts learned in their curriculum to do projects and will provide a platform to students to become design engineer.



