



# GOVERNMENT POLYTECHNIC VALSAD

## MECHANICAL DEPARTMENT



AGUST: 2021

### EXPERT LECTURE ON “CAD SOFTWARE

The screenshot shows a Zoom meeting interface. The main window displays a presentation slide titled "Product Design Cycle with CAD/CAM/CAE". The slide content is as follows:

- Customer's Requirements** (Icon: person with speech bubble)
- Conceptual Design** (Icon: person with gear)
- 3D Model** (Icon: blue 3D part)
- Analysis (Design Validation)** (Icon: orange 3D part)
- Drafting & Detailing** (Icon: technical drawing)
- Planning & Management** (Icon: factory floor)
- Manufacturing** (Icon: gear and part)

Software tools listed under each stage:

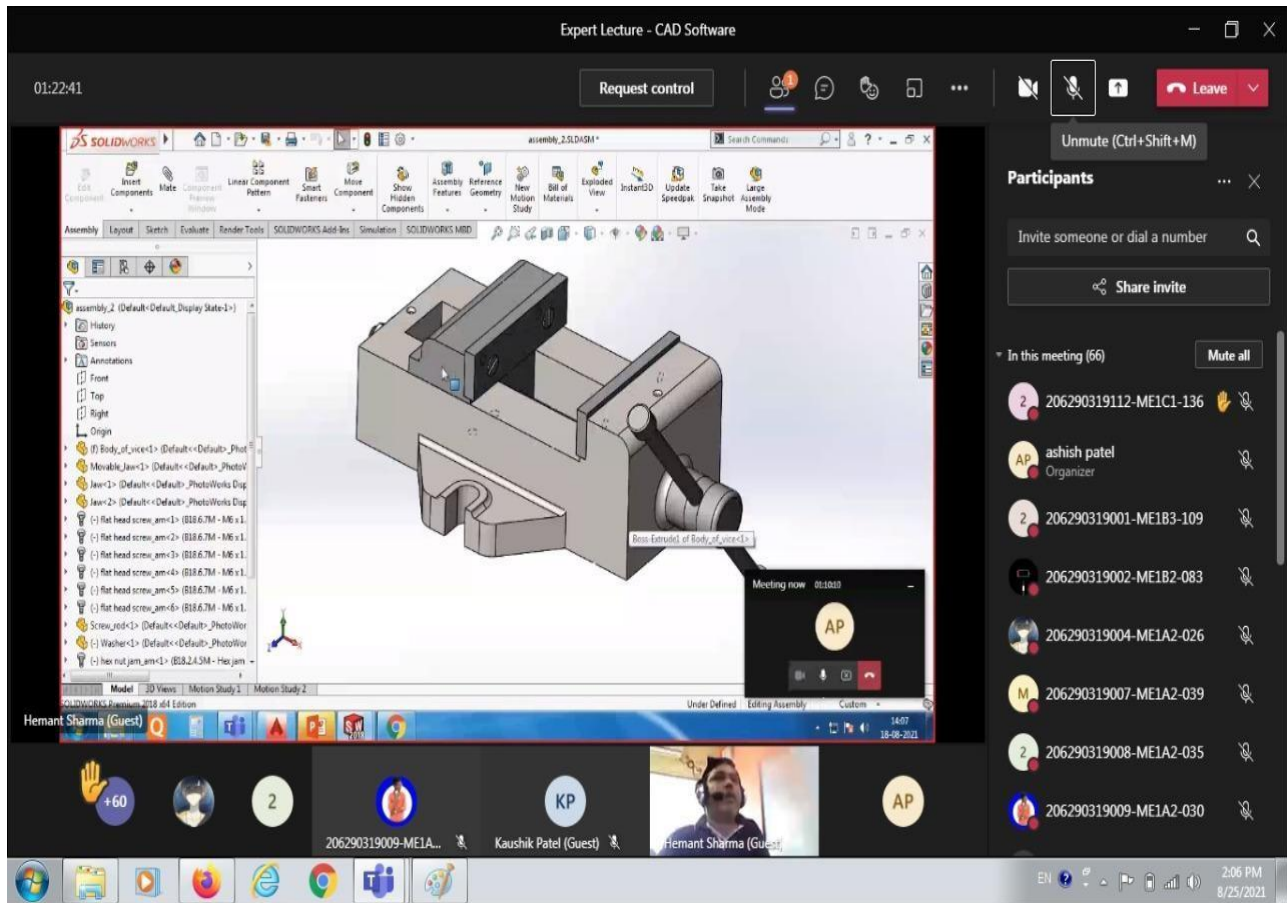
- Auto CAD** (under Conceptual Design)
- Creo, Solid Works, NX CAD, CATIA, PDMS** (under 3D Model)
- ANSYS, NX NASTRAN, ANSYS CFD** (under Analysis)
- AutoCAD, ALL 3D SOFTWARES** (under Drafting & Detailing)
- Primavera MSP, NX CAM, MASTERCAM** (under Manufacturing)

At the bottom of the slide, it says "CADD CENTRE Skills Driven. Job Led" and "www.caddcentre.com".

The Zoom interface includes a top bar with "Request control", "Leave" button, and a "Participants" list on the right with 62 people in the meeting. The bottom bar shows a video feed of Kaushik Patel (Guest) and a system tray with the date and time: 1:10 PM, 8/25/2021.

**Date: 25-08-2021**

An expert lecture is being organized on the topic of “CAD Software” by Mr. Kaushik Patel and Mr. Hemant Sharma, CADD Center Valsad. They introduced 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 Solid works 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 commands by drawing mechanical components and demonstrate the assembly drawing and solid models in solid works. At the end of this practice students are able draw 2D drawing and are able to know the different aspects of assembly drawing and solid modelling. This lecture will give motivation to students to understand the CAD software and will provide a platform to students to become design engineer.

*Mechanical Department*

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