



**HOPE Foundation's**  
**Finolex Academy of Management & Technology,**  
**Ratnagiri**  
**Mechanical Engineering Department**

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One Week Online Faculty Development Program on

**Dimensional Management**

As per ASME Y 14.5 Standards

The Department of Mechanical Engineering organized a one-week online Faculty Development Program (FDP) on '**Dimensional Management: As per ASME Y 14.5 Standards**' in association with MechaTol Product Engineering Solutions Pvt. Ltd. Pune from 15<sup>th</sup> to 20<sup>th</sup> July 2021.

The program began with the inaugural address by **Dr Kaushal Prasad** (Principal FAMT) and introduction by **Dr Milind Kirkire** (Dean Academics and Head of Mechanical Engineering Department) who welcomed the expert speaker **Mr Anand Bhise** (Director, Mechatol Product Engineering Solutions Pvt. Ltd. Pune) and the participants.

The FDP was designed for Faculty, postgraduate students, research scholars and industry personals. the participants got practical exposure to Geometric Dimensioning and Tolerancing (GD & T) regarding ASME Y 14.5. During FDP, the concept of the Datum Selection Process from the assembly and manufacturing approach was explained with actual drawing. The actual calculations regarding MMC, LMC and RFS was covered very effectively.

The FDP was organized and convened by **Dr Milind Kirkire** and coordinated by **Prof. Mahadev Naik** and **Prof. Sumit Malusare** (Assistant Professors, Mechanical Engineering Department). A total of 104 participants representing various industries and academic institutes from various states of India completed the FDP.

The screenshot shows a Microsoft Teams meeting interface. The main content is a presentation slide titled "DEPARTMENT" in red. The slide features a purple pyramid diagram with five levels, each labeled with a number and a corresponding quality management process:

- 1. SIX SIGMA
- 2. DESIGN VERIFICATION PLAN AND REPORT
- 3. ISO AUDITING
- 4. CONTROL PLANNING
- 5. ADVANCED PRODUCT QUALITY PLANNING

Below the pyramid, the text "DEPARTMENT" is written in red. To the right of the slide, a "People" panel lists 11 participants in the meeting, including Sumit Mallisare, Sanjeev Gupta, Abhijit Samanta, Ajinkya Tikekar, Amey Phanse, Amit Chaudhari, Amit Nimbalkar, Anand Bhise (Guest), Anand Deokar (Guest), Andrese Fernandes, and aneesh goyal. At the bottom of the Teams window, a row of circular icons represents other participants: +S2, PW, SN, RK, JA, AD, DK, MN, and AB. The Windows taskbar at the very bottom shows the search bar, system tray, and date/time (16:54, 05-07-2021).

### Snap Showing Detailing about Quality Planning

The screenshot displays a CAD software window titled "Mold Plate.PDF". The main area shows a technical drawing of a mold block. The drawing includes a top view (left) and a side view (right). Key features and annotations include:

- Top View:** A circular mold plate with a central hole and several smaller holes. Dimensions include a diameter of  $150 \pm 0.12$  and a hole diameter of  $25 \pm 0.05$ . A handwritten note in blue says "Shaft =  $\phi 23 \pm 0.06$ ".
- Side View:** Shows the profile of the mold block with a diameter of  $25 \pm 0.05$  and a length of  $32 \pm 0.015$ . A handwritten note in blue says "A - 0.01".
- Handwritten Annotations:** Blue boxes and lines highlight specific dimensions and tolerances. A note "I 0.04 A B" is written in blue. A note "EQ. SPACED" is written in black. A note "Turn camera on" is written in black.
- Technical Specifications:** The drawing includes various tolerances such as  $\pm 0.012$ ,  $-0.009$ ,  $\pm 0.015$ ,  $\pm 0.000$ ,  $\pm 0.01$ ,  $\pm 0.015$ ,  $\pm 0.023$ ,  $-0.014$ ,  $\pm 0.012$ ,  $\pm 0.005$ ,  $\pm 0.03$ , and  $-0.015$ .
- Scale:** The drawing is labeled "DETAIL F SCALE 2:1".

The CAD software interface includes a top menu bar, a toolbar, and a bottom status bar. The Windows taskbar at the bottom shows the search bar, system tray, and date/time (16:54, 05-07-2021).

### Detailed explanation about Tolerancing during FDP session