



Faculty Development Program



Event Outcome

Title : Faculty Development Program (FDP) on Geometric Dimensioning & Tolerancing (GD&T) using CAD Software Tools

Date : 2025-12-01 - 2025-12-03

Time : 10:00 - 17:30

Venue : MB111

- Acquiring innovative skills in advanced design and manufacturing technologies Instructors can integrate industry-standard practices and real-world examples into their curriculum
Guarantees that academic programs align with contemporary industry requirements Places faculty at the leading edge of technological innovations in engineering design



Resource Person 1 - Details

Name : Vinoth Jebaraj A

Designation : Associate Professor Sr., School of Mechanical Engineering

University/ Company : VIT, Vellore

Address : India, 632014.



Resource Person 2 - Details

Name : Bikash Routh

Designation : Associate Professor Grade 1, School of Mechanical Engineering

University/ Company : VIT, Vellore

Address : India, 632014.



Resource Person 3 - Details

Name : Dr V Umasankar

Designation : Retired Professor , VIT

University/ Company : VIT, Chennai

Address : India, 632014.

Resource Person's Profile :

1. Profile of Vinoth Jebaraj A

School of Mechanical Engineering, VIT Vellore

2. Profile of Bikash Routh

School of MEchanical Engineering, VIT, Vellore

3. Profile of Dr V Umasankar

Dr.V.Umasankar has passed out from Madras Institute of Technology in Automobile Engineering in 1977. Completed M.S by research from IITM, Chennai for the thesis submitted thesis on performance Evaluation of Coated tools. Have 30 years of industrial experience in Larsen and Toubro, Rane group and Sundram Fasteners Ltd in the areas of Manufacturing Engineering,

A three-day Faculty Development Program (FDP) concentrating on Geometric Dimensioning and Tolerancing (GD and T) utilizing CAD software tools is necessary for faculty instructing the Engineering Innovation and Modelling course in the Winter semester 2025_26. This FDP is designed to provide faculty with the necessary skills to seamlessly incorporate contemporary GD&T principles and their practical application in CAD environments into their curriculum. The program focuses on conveying design intent and adhering to industry-standard practices in accordance with ASME Y14.5 or ISO standards. The FDP aims to accomplish several important goals: Comprehend the essential principles, regulations (such as Rule 1 and 2), and applicable standards of GD&T. Analyze traditional dimensioning techniques alongside the GD&T system and outline its benefits. Utilize and analyze GD&T symbols and feature control frames on engineering drawings and 3D models through CAD software. Define datum reference frames and perform fundamental tolerance stack-up analysis. Improvement of pedagogical methods: Improve teaching practices for engineering graphics and GD&T to achieve greater effectiveness.

Providing hands-on experience in applying GD&T symbols and annotations directly onto 3D models and 2D engineering drawings within a CAD environment (SolidWorks).

Coordinator's: Prof. VENKATESAN K 13315 - Professor Grade 1 - SMEC
Prof. OYYARAVELU R 12802 - Assistant Professor Sr. Grade 1 - SMEC