

**FDP on MODELLING AND ENGINEERING  
ANALYSIS FOR FUTURE READY  
INDUSTRY**

**26.03.2025 - 27.03.2025**

**Faculty Development Program on**  
**“MODELLING AND ENGINEERING ANALYSIS FOR FUTURE READY INDUSTRY”**  
**March 26-27, 2025**

The Faculty Development Program “MODELLING AND ENGINEERING ANALYSIS FOR FUTURE READY INDUSTRY” was successfully conducted, in association with Department of Aeronautical, Aerospace, and Civil Engineering, from 26<sup>th</sup> March 2025 to 27<sup>th</sup> March 2025. This FDP was designed to impress upon the Faculty, the importance of Modelling and Engineering Analysis for Future Ready Industry. Overall, 25 faculty members and 47 students registered for event.

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ENGINEERING  
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*Cordially Invites You  
to the*

Inauguration of  
the FDP on

**“Modeling and Engineering Analysis  
for Future Ready Industry”**

Resource Speaker  
**Raviraj R**  
PROLIM Solutions India Pvt. Ltd.

Presided by  
**Dr. Ajayan K R**  
Principal, MVJCE

Venue	Date	Time
Seminar Hall 06	26.03.2025	10:30 AM

**MVJ College of Engineering**  
Near ITPL, Whitefield, Bengaluru 560067  
T: +91 80 4299 1000 W: www.mvjce.edu.in

**Invitation of the Event**

## DAY 1

Dr. Shrinivas L Gombi, Dean (A) and Professor, Department of Mechanical Engineering, inaugurated the event and highlighted the importance of modelling and engineering analysis, especially in the Automotive and Aerospace industries, He also stressed on the need for modelling and engineering analysis for new product design. Dr. A C Niranjanappa, Professor, Department of Aeronautical Engineering welcomed the guest.

The inaugural session of the FDP on 26<sup>th</sup> March 2025 was delivered by Raviraj R, Technical Specialist, PROLIM Solutions India Pvt. Ltd. In his talk, he gave an overview of the importance of engineering analysis for mechanical and aerospace engineers.

In the rapidly evolving landscape of modern industries, modelling and engineering analysis have become essential pillars for innovation, efficiency, and sustainability. This Faculty Development Program on "Modelling and Engineering Analysis for a Future-Ready Industry" is designed to equip educators and researchers with advanced skills in computational modelling, simulation techniques, and intelligent analysis tools. As industries move towards greater automation, digital integration, and data-driven decision-making, mastering these competencies is critical to shaping future-ready engineers. Through expert sessions, hands-on exposure, and real-world case studies, this program aims to bridge the gap between academic knowledge and emerging industrial practices, preparing participants to lead in the era of smart engineering.

In the first session (from 10.30 am to 12.30 pm) of day 1, I.e., on 26<sup>th</sup> March 2025, he gave a demonstration of the SIEMENS Solid Edge ST4 Software. In the afternoon session from 01.30 pm to 04.00 pm of day 1 (26<sup>th</sup> March 2025), he provided an overview of the sheet metal modelling and surface design.

He emphasized the importance of modelling and engineering analysis that are essential for analysis of engineering components in real time industrial applications.

The valedictory session to the day 1 was done by Dr. Santhosh N, Associate Professor and Head, Department of Mechanical Engineering, MVJCE. The faculty and students were happy with the learning's of the day 1 session.



Dr. Shrinivas L Gombi welcoming the Chief Guest R Raviraj to the FDP.



Dr. Santhosh N, Associate Professor and Head, Department of ME, Introducing the Resource Person to the Audience



Dr. Raviraj R delivering session on the Siemens Solid Edge ST4 Software and students keenly listening to his session.



## DAY 2

The second day of the Faculty Development Program began with the formal inauguration of the session by Mr. Purushotham V, Co-Founder of Nikveen Infotech.

He started by warmly welcoming all the participants and emphasized the importance of continuous learning and technological adaptation in today's fast-evolving industrial environment.

Mr. Purushotham introduced Nikveen Infotech and shared its journey, focusing on how innovation and engineering analysis have played a key role in their growth and success. He then spoke about the relevance of modelling and engineering analysis in creating industries that are future-ready — highlighting how technologies such as simulation-based design, digital twins, and AI-driven predictive maintenance are redefining traditional engineering practices.

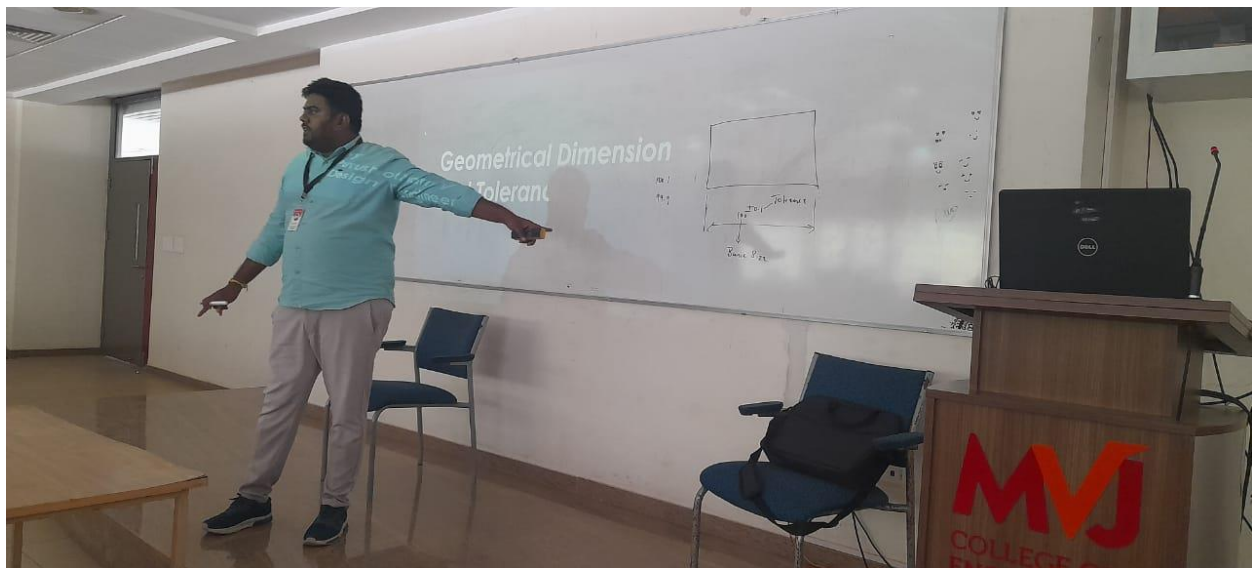
In the morning session from 10.30 am to 12.30 pm on 27<sup>th</sup> March 2025, he gave an overview of the GD&T and the applications of GD&T in real world applications. He also touched upon real-world case studies where engineering modelling helped industries optimize their product development cycles, reduce costs, and improve quality and sustainability.

In the second session of Day 2 on 27<sup>th</sup> March 2025, from 1.30 pm to 3.30 pm. He demonstrated the 3D modeling and assembly in CATIA software. Throughout the session, he stressed the need for academia–industry collaboration, encouraging faculty members to integrate real-time industry problems into academic research and student projects.

Mr. Purushotham concluded the second session with an inspiring message, urging participants to embrace new-age tools and methodologies, upskill continuously, and prepare students to become innovators and leaders in the industry of tomorrow.

After his talk, the floor was opened for an interactive Q&A session, where he addressed questions from the participants, sharing additional insights and practical tips based on his professional experiences. The valedictory session was conducted after Q&A and was presided by Dr. Shrinivas L Gombi, Dean (A) followed by certificate distribution session. Dr. A C Niranjanappa, Head of

the Department, AE, Dr. Vinu Kuriakose, Head of the Department, along with the resource person distributed the certificates to the participants, followed by a group photo.



Mr. Purushotham V, Co-Founder, Nikveen Infotech delivering session on Geometrical Dimension and Tolerancing (GD&T) to students on Day 2 of the FDP.



Dr. Shrinivas L Gombi, Dean (A) presenting certificate to Prof. H D Shivakumar, ME Dept.



Dr. Shrinivas L Gombi, Dean (A) presenting certificate to Dr. Rajesh Kumar P, ME Dept.



Dr. Shrinivas L Gombi, Dean (A) distributing certificate to Prof. Nandhana from AE Department



Dr. Shrinivas L Gombi, Dean (A) and Dr. A C Niranjanappa, HoD-AE, presenting certificate to  
Dr. Vinu M Kuriakose, HoD-AS

**Photos of Certificate Distribution to the Faculty participants at the FDP**





**Photos of Certificate Distribution Session to the Student participants at the FDP**

### Summary of the FDP

Date of the Event	26 <sup>th</sup> to 27 <sup>th</sup> March 2025
Title of the Event	FDP on <b>MODELLING AND ENGINEERING ANALYSIS FOR FUTURE READY INDUSTRY</b>
Organized by	<b>Department of Mechanical Engineering, MVJCE, in association with Department of Aeronautical and Aerospace Engineering, Civil Engineering</b>
Venue	<b>Seminar Hall 03 (Old Number 06)</b>

### Outcome of the FDP

1. The faculty members were encouraged to carry out research activities in modeling, applications of FEA and simulations.
2. They experienced and understood the concepts of engineering analysis and simulations.
3. The students and faculty members gained insights into the significance of GD&T.



**Group Photo of the Faculty and Student participants of the FDP with the Resource Person**