



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

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### **One-Week Online Faculty Development Programme**

The Department of Mechanical Engineering at Finolex Academy of Management and Technology, Ratnagiri, successfully conducted a One-Week Online Faculty Development Programme on “**Advanced Engineering Problem Solving & Operational Excellence**” from 22nd June to 27th June 2026. The programme was organised under the convenorship of Dr. Milind Kirkire, Head of the Department of Mechanical Engineering. It was successfully coordinated by Dr. Gayatri Kirkire and Dr. Mahadev Naik, Assistant Professors in the department. A total of 85 participants, including faculty members and academicians from across India and overseas, attended this FDP.

The programme focused on key emerging areas such as Industry 4.0, digital transformation, Lean methodologies, predictive maintenance, supply chain management, Value Analysis and Value Engineering (VAVE), Multiphysics engineering, and professionalism in engineering education. The FDP commenced with an inaugural ceremony, followed by an inaugural session delivered by Dr Santosh B. Rane, Head, Department of Mechanical Engineering, Sardar Patel College of Engineering, Mumbai, titled "The Evolution of Excellence: Navigating Industry 4.0 and 5.0."

Over the six days, eminent academicians and industry experts shared their knowledge on various emerging topics related to advanced engineering, Industry 4.0, operational excellence, predictive maintenance, supply chains, and digital transformation. The details of the day-wise sessions and resource persons are presented in the table below. The programme concluded with the Valedictory Session on "Professionalism in Engineering Education," delivered by Dr. Umesh Bhushi, Professor Emeritus, Department of Business Studies, VTU, Belagavi, who graced the occasion as the Valedictory Chief Guest and Resource Person. Participants expressed their appreciation by sharing excellent feedback, highlighting the relevance, quality, and practical value of the sessions.

The programme concluded with a Vote of Thanks proposed by Dr. Milind Kirkire, who expressed heartfelt gratitude to the distinguished resource persons, participants, Principal Dr. Kaushal Prasad, the management, and the organizing team for their valuable support in making the FDP a grand success.

## Day-wise Sessions

Day	Date	Session	Topic	Resource Person
Day 1	22 Jun 2026	I	The Evolution of Excellence: Navigating Industry 4.0 and 5.0	Dr. Santosh B. Rane
Day 1	22 Jun 2026	II	Next-Gen Supply Chains: The Engine for Operational Excellence	Dr. Dhanraj Tambuskar
Day 2	23 Jun 2026	I	Lean Methodology and Digital Tools for Problem Solving	Mr. Amol Lovalekar
Day 2	23 Jun 2026	II	Tribology-Based Product Performance Improvement via Condition Monitoring	Dr. Shashikant Goilkar
Day 3	24 Jun 2026	I	Multiphysics Engineering: End-to-End Problem Solving	Mr. Nachiket Phadke
Day 3	24 Jun 2026	II	Lean Six Sigma with IoT for Productivity Improvement	Dr. Prathamesh Potdar
Day 4	25 Jun 2026	I	Multiphysics Engineering: End-to-End Problem Solving (Continued)	Mr. Nachiket Phadke
Day 4	25 Jun 2026	II	Digital Twin and Machine Learning: Transforming Predictive Maintenance in Industry 4.0	Dr. Mahadev Naik
Day 5	26 Jun 2026	I	The VAVE Approach to Industrial Challenges	Mr. Anand Bhise
Day 5	26 Jun 2026	II	The VAVE Approach to Industrial Challenges	Mr. Anand Bhise
Day 6	27 Jun 2026	I	Future-Proofing Supply Chains with Digital Twin Models	Dr. Gayatri Kirkire
Day 6	27 Jun 2026	II	Industry 4.0 and its Impacts to Industry	Mr. Balkrishna Jadhav
Day 6	27 Jun 2026	III	Professionalism in Engineering Education (Valedictory)	Dr. Umesh Bhushi

## Glimpse of the FDP

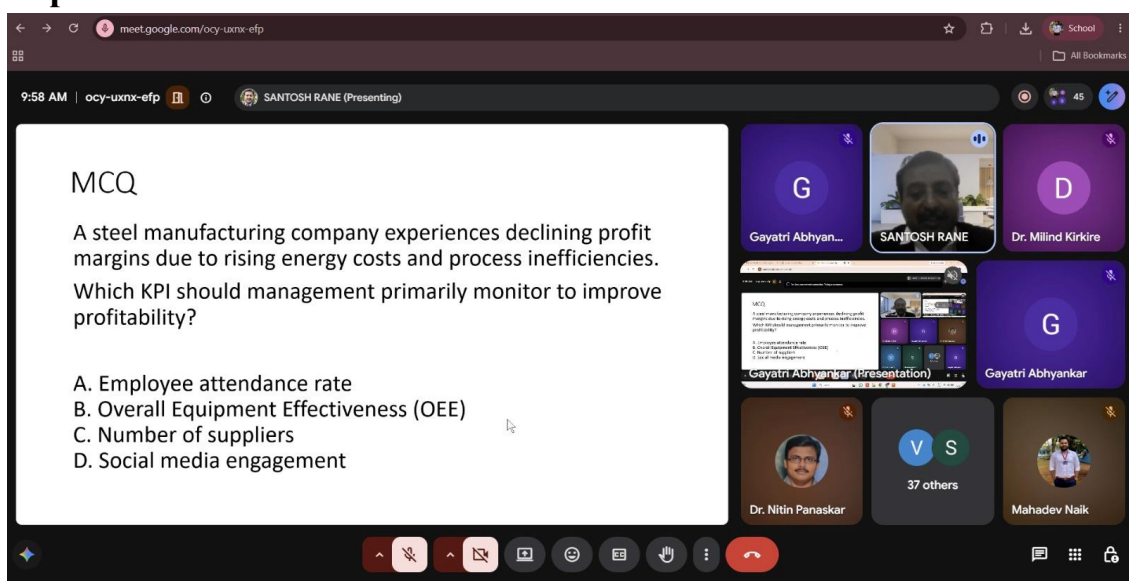


Figure 1: Live online session during the FDP



Hope Foundation's  
**FINOLEX ACADEMY OF MANAGEMENT AND TECHNOLOGY, RATNAGIRI**

(Approved by AICTE, Recognized by DTE Maharashtra, Affiliated to University of Mumbai)

DEPARTMENT OF MECHANICAL ENGINEERING

## CERTIFICATE

This certificate is proudly presented to

**Mr. Bhoir Vinod Subhash**  
of

**Vidya Prasarak Mandal's College of Engineering, Thane**

for successfully participating in one week (06 days) faculty development program (FDP) on **Advanced Engineering Problem Solving & Operational Excellence** organized in online mode during **22/06/2026 to 27/06/2026**. We wish him/her continued success in future endeavors.

Dr. Mahadev Naik  
Coordinator

Dr. Gayatri Kirkire  
Coordinator

Prof. (Dr.) Milind Kirkire  
Convener and Head of  
the Department

Prof. (Dr.) Kaushal Prasad  
Principal

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**FDP certificate issued to participants**