Faculty Development Program

Title : Applied Physics for Engineers

Date : 2025-07-07 - 2025-07-11
Time : 10:00 - 17:30
Venue : CDMM304

Event Outcome

- Determine the resultant of a system of forces and solving equilibrium problems
- Apply mass moment and area moment transfer theorems to evaluate section properties of physical systems.
- Solve problems involving motion of particles and rigid bodies using equations of motion.
- Analyze mechanical systems using principles of work and energy, and impulse and momentum.
- Conduct experiments to verify fundamental laws and determine physical properties.

Resource Person 1 - Details
Name : Sakthivel P
Designation : Associate Professor Sr., School of Mechanical Engineering
University/ Company : VIT, Vellore
Address : India, 632014.

Resource Person 2 - Details
Name : Velu M
Designation : Professor Grade 1, School of Mechanical Engineering
University/ Company : VIT, Vellore
Address : India, 632014.

Resource Person 3 - Details
Name : Thundil Karuppa Raj R
Designation : Professor Higher Academic Grade, School of Mechanical Engineering
University/ Company : VIT, Vellore
Address : India, 632014.

Resource Person 4 - Details
Name : Venkatesan K
Designation : Professor Grade 1, School of Mechanical Engineering
University/ Company : VIT, Vellore
Address : India, 632014.

Resource Person 5 - Details
Name : Elangovan D
Designation : Professor Grade 1, School of Electrical Engineering
University/ Company : VIT, Vellore
Address : India, 632014.

Resource Person's Profile :

1. Profile of Sakthivel P

Dr. P. Sakthivel is an academician since 1997, currently working in the Department of Automotive Engineering, School of Mechanical Engineering, Vellore Institute of Technology, Vellore. He teaches various fundamental courses like Engineering Drawing, Engineering Mechanics, Strength of Materials, Theory of Machines, Vehicle Crashworthiness and Vehicle Dynamics. His research interest is in the field of Vehicle Dynamics, in particular vehicle handling and NVH. He has earned his PhD from Indian Ins

2. Profile of Velu M

Dr. Velu M, is a Professor form the department of Design and Automation, SMEC. He is an expert in Fracture Fatigue and Failure Theories and teaching fundamental courses more than two decades.

3. Profile of Thundil Karuppa Raj R

Director, TLCE and Professor from SMEC

4. Profile of Venkatesan K

Professor from SMEC

5. Profile of Elangovan D

Deputy Director TIFAC

The event is the Faculty Development Program (FDP) for faculty members from SAS those will be handling the course "Applied Physics for Engineers" as per ACE curriculum in the upcoming semester. This program is aimed to offer training on course content delivery to meet necessary learning outcomes. The FDP will cover all Modules viz. Basics of Statics, Analysis of Structures and Section Properties, Friction, Particle Dynamics and Rigid Body Dynamics. Upon completion of the program, the participants will be able to prepare lecture contents, problem sets, to meet required lesson plan and Assignment question sets, laboratory experiments to deliver the course effectively to meet the course objective and outcomes.

Not Applicable

Coordinator's: **Prof. SAKTHIVEL P 11259 - Associate Professor Sr. - SMEC**
Prof. VELU M 11551 - Professor Grade 1 - SMEC