

ABOUT THE INSTITUTION

PES Institute of Technology and Management established in the year 2007 has grown from strength to strength within a very short span of time to provide world class technical and scientific education for developing a professional outlook in every walk of life. The institute is striving for excellence through industrial-academic participation, consultancy and research. The qualified, competent and experienced faculties have backed the ultramodern structure of PESITM located in outskirts of Shivamogga. As an integrated campus PESITM presently offers Engineering programs in Computer Science, Electronics & Communication, Mechanical, Electrical & Electronics, Information Science, Civil Eng.; PG program in MBA and Institution has NINE research centers recognized by VTU. More than 2000 students are studying in these streams in the session 2020-2021. The institute has well-equipped laboratories, library and hostel facilities for girls and boys. The institute with its rich faculty resources has strived to provide value-added high-quality education with practical skills to provide all round professional competence.

INSTITUTION VISION

To be the most preferred institution for engineering & management education, research and entrepreneurship by creating professionally superior and ethically strong global manpower.

INSTITUTION MISSION

To prepare students for professional accomplishments and responsible global citizenship while fostering continuous learning and to provide state-of-the-art education through the committed and highly skilled faculty by partnering and collaborating with industry and R&D institutes

ABOUT THE DEPARTMENT

The department of Mechanical Engineering was established in the year 2010 with the vision of attracting and retaining outstanding faculty and staff who will ever provide an educational experience that prepares students for successful careers in Mechanical Engineering. The department is well equipped with state of art laboratories that impart practical training to theoretical Knowledge. In the pursuit of promoting and developing the research capabilities along with the professional activities among the faculties and the students. Eminent persons at National and International level from regularly invited for expert lectures to explore the recent development in research and innovations. The faculty members of the department have to their credit a good number of publications in International /National Journals.

DEPARTMENT VISION

To emerge as a center of academic and research excellence in the field of Mechanical Engineering.

DEPARTMENT MISSION

- M1: Creating a platform for effective and continuous learning by offering a strong technical knowledge and skills.
- M2: To motivate the students to involving in academic and research activities for their career excellence and being responsible global citizens.
- M3: To inculcate Social, Ethical and Entrepreneurial values for the professional accomplishments.

ABOUT THE PROGRAM

Short term Training Programmes (STTPs) are especially important in adapting faculty members to their changing roles in initiating and setting the directions for curricular changes. The major focus of the STTP is on upgrading the teaching, training, and research skills of faculty members. This training program on "Advanced Research in Nanomaterials and Nano Composites" is intended to provide opportunity for teaching faculties employed in Engineering/ Diploma colleges/ Research scholars across the country for teaching and upgrading their research knowledge in the areas of Nanomaterials and Nano Composites.

OBJECTIVES

The STTP is proposed to generate and impart knowledge on the advancement in nano materials and nano composites. To provide the knowledge about the advanced research techniques and industry need with their sustainability.

LEARNINGS OUTCOMES

On completion of this STTP, participant will be able to:

- Understand the latest and advanced inputs about nano materials and nano composites, manufacturing techniques and the use of these in practice/industries.
- This STTP will enhance better teaching/research ability with respect to content and delivery in the area of Nano Materials.

RESOURCE PERSON

Eminent and well qualified Professionals/Experts from Various Institutes, Universities and Industries will deliver the session.

WHO CAN REGISTER?

The Faculty members of the AICTE approved Institutions, Universities, Research Scholars, Industry Persons and Engineers from R&D Labs.



TOPICS

- **Nanomaterials and Nanocomposites: State of Art, New Challenges, and Opportunities**
- **Processing and characterization of Nanomaterials**
- **Fundamentals of Carbon nanotubes and Graphene**
- **Characterization of Nano Coatings**
- **Development of carbon nanostructure composites**
- **Nanocomposites for Researchers: Problem formulations and methodology**
- **Waste to wealth: Sustainable economy through Nanomaterials.**
- **Processing, characterization and applications of metal matrix nanocomposites**
- **Light weight high strength nanocomposites: opportunities and scope**
- **Magnesium based nanocomposites: Applications and Research scopes**
- **Processing, characterization and Spectroscopic Techniques of polymer matrix nanocomposites**
- **Nanomaterials and Nanocomposites: in Energy and sensors**
- **Recent trends and advancement of Nanocomposites in Automotive sector**
- **Current Status and Future Prospects of Nanomaterials and Nanocomposites for Researchers**

CONTACT DETAILS

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