



### Sponsorship Certificate

This is to certify that Sri/Dr/Smt. ....  
 .....is hereby sponsored to  
 attend the course.

*Signature of the  
 Head of the Department  
 with Seal*

*Signature of Principal  
 with Seal*

### Objectives of the Programme

- Explain the processes involved in the development and production of composite products, present their applications, and compare the advantages and disadvantages of different processes (critical thinking).
- Application of composites in various sectors.

### Highlights of the Programme

- Hands on sessions from reputed research and academic institutions such as IIT, IISc, NIT and industry experts using real-time examples.
- Sessions are planned for the systematic conduction of the programme to help participants in implementing best practices to meet the current industry demand in the field of Composite materials.

Co-ordinator

**Dr. H. M. NANJUNDASWAMY**

Professor

**Mr. M. SREENIVASA**

Asst. Professor

TEQIP-III/Training

Department of I & P Engineering  
 PES College of Engineering, Mandya.

Chairman, Organising Committee

**Dr. K. NARASIMHA CHARY**

Professor & COE

Convenors

**Dr. N. L. MURALIKRISHNA**

Associate Professor and HOD

**Dr. B. S. SHIVAKUMARA**

Professor & Dean III

### MEMBERS

**Mr. M. A. Venugopal**

**Mr. Raghu. S**

**Mr. Sachin. N. K**

**Mr. Bharath. M. S**

**Mr. Ravi. K**

and other staff of the department.

**P.E.S COLLEGE OF ENGINEERING,  
 MANDYA – 571 401  
 KARNATAKA**



TEQIP-III

**ONE WEEK  
 FACULTY DEVELOPMENT PROGRAM**

Under  
 Twinning Activities  
 TEQIP – III

**Subcomponent 1.3**

On

**PROCESSING AND APPLICATION OF  
 COMPOSITE MATERIALS [PACM]**

30th September to 5th October 2019.



Organised by  
**DEPARTMENT OF INDUSTRIAL &  
 PRODUCTION ENGINEERING**

## Introduction

Composites are one of the widely used materials with better strength to weight/stiffness ratio. The analysis and design procedures of composite structures are considerably more complex due to their anisotropic nature. To achieve safe and reliable structural system, the composites designer/analyst needs to have a sound knowledge and firm grasp of the underlying principles of the various Macro/Micro/Nano composite materials.

Manufacturing process are the steps through which raw materials are transformed into final products. This process begins with the product design and materials specification from which the product is made. Material processing dominates the manufacturing activities. The advancement in technology for future requirements in diverse fields needs the development of new materials and manufacturing technologies. This program brings together experts in materials and manufacturing domain, who sheds light on the emerging materials and manufacturing technologies.

This course is designed for Industry Personnel, Faculty, Research Scholars and M. Tech/B. Tech students working in the field of Mechanical, Civil, Chemical, Materials Science and Metallurgy. The main focus of this course is to strengthen the subject knowledge theoretically and practically by providing in-depth insights on the various processing techniques used to manufacture composite materials and the application of this materials in various sectors.

## About I & P Engineering Department.

Industrial and Production Engineering department was introduced in the year 1982 with the primary objectives to carry out teaching in the broad areas of production with specialization in Metal cutting, machine tools, CAD-CAM, Industrial Engineering, Management, Finance and Quality Control, Advanced Manufacturing practices, Advanced materials and their characterization.

## About Industry Institute Interaction Cell

To bridge the gap between the theoretical and practical aspects of the curriculum, corporate/industrial interaction is extremely important. The IIIC of PESCE recognizes this need and addresses it through the regular association and meeting with corporates and provides industry exposure to the students and faculty and enables them to pick up skills in addition to what is being imparted in the class rooms.

## Course Content

- Introduction to composite materials: Basics and Fundamentals.
- Processing of various types of composite materials.
- Manufacturing of Metal matrix, Ceramic Matrix and Polymer Matrix composite materials.
- Application of Composites /Nano composites in Automobile, Aircraft and manufacturing sectors.
- Case studies.

## Eligibility

Faculty of TEQIP Engineering Colleges and non-TEQIP Engineering Colleges can participate by registering to the program.

**Registration Details:** The applicants should send their applications in the given format duly filled in and signed by their Head of the Department.

**Registration Fee:** Rs 2000.00 (Rupees Two thousand only) which include program materials, working lunch, snacks, etc.

**Accommodation:** Accommodation is available at nearby hotels. Arrangements may be made on request at actuals.

**About Mandya:** Mandya is located near to Mysore at a distance of 42 kms and about 100 kms from Bangalore. The institution is just 2.5 kms away from Bus stop and 3.5 kms from Railway Station. There are plenty of visiting places in and around Mandya like Srirangapatna, Bird Sanctuary, Krishnaraja Sagara (KRS), Melkote are few of them.



## Department of Industrial & Production Engineering

TEQIP-III Sponsored  
One Week Faculty Development Program

On  
**PROCESSING AND APPLICATION OF  
COMPOSITE MATERIALS [PACM]**  
30th September to 5th October 2019.

### Registration Form

Name : .....

Department : .....

Designation : .....

Qualification : .....

Correspondence Address : .....

E-Mail : .....

Experience : .....

Teaching : .....

Research : .....

*I hereby declare that the above informations are true to the best of my knowledge.*

*Signature*