

## IMPORTANT DATES:

### For External Participants:

Last date of Registration: November 2, 2019

Notification about Selection: November 2, 2019

Participants' Confirmation: November 2, 2019

## ELIGIBILITY AND REGISTRATION

Faculties, research scholars, PG students from engineering institutions and professionals from Industry & R&D units may attend the course. The participants must be sponsored by their institutions.

## ACCOMMODATION

Accommodation may be arranged in hostel/guest house on nominal payment basis subject to the availability. No TA/DA will be paid to the participants. Participants will be selected on first-come-first serve basis up to a maximum of 35.

## CONTACT PERSONS

### Dr. Arun Kumar Pandey

(Associate Professor)

Mechanical Engineering Department

BIET Jhansi (UP) Phone: 8770538640

Email: arun.pandey@bietjhs.ac.in

### Dr. Vijay Verma (Assistant Professor)

Mechanical Engineering Department

BIET Jhansi (UP) Phone: 9450135681

Email: vijay@bietjhs.ac.in

## ORGANIZING COMMITTEE

### PATRON

Prof. V. K. Tyagi

Director, BIET, Jhansi

## CHAIRMAN:

Dr. Tarun Soota

Associate Professor & Head

Mechanical Engineering Department

## CONVENER

### Prof. Sanjay Agarwal

Professor

Mechanical Engineering, BIET Jhansi

### Dr. Arun Kumar Pandey

Associate Professor.

Mechanical Engineering, BIET Jhansi

## Coordinator

### Dr. Vijay Verma

Assistant Professor

Mechanical Engineering, BIET Jhansi

## ADVISORY COMMITTEE

Prof. V. K. Jain, MANIT Bhopal

Prof. J. Ram Kumar, IIT Kanpur

Prof S. K. Jha, IIT BHU. Varanasi

Prof. P. M. Pandey, IIT Delhi

Prof. Anil Kumar Agrawal, IIT, BHU

Prof. K.N. Pandey, MNNIT, Allahabad

Prof. A. K. Dubey, MNNIT, Allahabad

Dr. Meghanshu Vashisth, IIT, BHU

Dr. Sanjay Soni, MANIT, Bhopal

Dr. Ravindra Rana, MANIT, Bhopal

Dr. Ajay Bharti, MNNIT Allahabad

Dr. B. N. Upadhyay, RRCAT Indore

Er. H. K. Singh, ISRO, Trivendrum

Prof. M.K. Gupta, BIET, Jhansi

Prof. A. K. Solanki, BIET, Jhansi

Prof. A. K. Nigam, BIET, Jhansi

Prof. D. K. Srivastava, BIET, Jhansi

Dr. Ajay D. Hiwarkar, BIET, Jhansi



# Bundelkhand Institute of Engineering and Technology, Jhansi- U.P.

Organized

World Bank (TEQIP-III) Assisted

One week Short Term Course

On

**“Advances and Challenges in  
Material and Manufacturing”  
(ACMM-2019)”**

From

**November 04-08, 2019**

Convener

**Prof. Sanjay Agarwal**

**Dr. Arun Kumar Pandey**

Coordinator

**Dr. Vijay Verma**

Department of Mechanical Engineering  
Bundelkhand Institute of Engineering and  
Technology, Jhansi (U.P.)

## ABOUT THE INSTITUTION

Bundelkhand Institute of Engineering & Technology (B.I.E.T), Jhansi is located in the historical city of Maharani Lakshmi Bai. B.I.E.T., Jhansi was established in 1989. The institute consistently attracts the finest faculty and the best of students for its Bachelor's and Master's programs. At present, the institute offers seven B.Tech, seven M.Tech, and MBA programmes.

## ABOUT THE DEPARTMENT

The Department of Mechanical Engineering is one of the pioneer and leading department in terms of well-educated faculty members, research activities as well as facilities. The department offers B.Tech., and M.Tech. (Manufacturing Science & Tech. and Thermal Engg.). The department has well equipped labs with modern facilities such as equipment, measuring tools, advanced machines and latest software. The lab View for virtual instrumentation along with Temperature and Pressure sensors with DAQ card, Wire EDM, ZNC EDM, ECM, Computerized Hardness tester, Pin-on-disc Wear test apparatus, Microscope etc purchased under TEQIP II grant are available in department. The department has well modern Virtual Class Room equipped with lecture recording and video conferencing systems.

## INTRODUCTION

The advances in materials and manufacturing and processing including additive, conservative and subtractive processes are very challenging and interesting field for the researchers. It's intended to provide a compiled resource that reviews details of the advances that have been

made in recent years in manufacturing and processing of materials. With the development of different advanced materials, superalloys, composites and high temperature resistant strength materials. It become a great challenge to process such type of the materials. For processing such type of materials a lot of development has been taken place in the field of conventional as well as unconventional manufacturing.

Also the increase demand of preciseness, miniature and complex profile have increased the challenges in the manufacturing. Micro manufacturing is another growing area in the field of micro and nano technology.

## COURSE OBJECTIVE

The objective of this short term course is to enrich the knowledge of participants in the emerging field of advanced material and manufacturing having vast application starting from aeronautical and aerospace to submarine, and biomedical to electronics. The course also focuses on current developments and the challenges and motivation in this field.

## COURSE CONTENTS

- Smart and intelligent material.
- Shape memory and super alloy
- Micro and nano composites.
- 3D printing
- Advanced measurement and characterization techniques.
- Optimization and soft computing techniques.
- Conventional and unconventional manufacturing.
- Functionally graded materials.

## World Bank (TEQIP-III) Assisted

### One week Short Term Course On

### “Advances and Challenges in Material and Manufacturing” (ACMM-2019)”

From

Novemeber 04-08, 2019

Organized by

Department of Mechanical Engineering  
Bundelkhand Institute of Engineering and  
Technology, Jhansi (U.P.)

### Registration Form

Name:.....  
Gender(Male/Female):.....  
Category: .....  
Religion:.....  
Designation:.....  
Organization:.....  
Address:.....Pin...  
.....Mobile:.....  
Email:.....  
Accommodation: Required/Not required

Signature of the Participant with date

### Sponsorship Certificate:

It is certified that \_\_\_\_\_  
is permitted to participate in the ACMM-  
2019.

Date:

Signature  
Head of the Department/ Institute