## IMPORTANT DATES:

### For External Participants:

Last date of Registration: Feb. 20, 2019
Notification about Selection: **Feb. 21, 2019**
Participants' Confirmation: **Feb. 22, 2019**

## ELIGIBILITY AND REGISTRATION

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

## ACCOMMODATION

Accommodation can 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 30.

## CONTACT PERSON

**Dr. Arun Kumar Pandey (Associate Prof.)**
Mechanical Engineering Department
BIET Jhansi (UP) Phone: 8770538640,
9575272128, mail:arun.pandey@bietjhs.ac.in
**Dr. Vijay Verma (Assistant Professor)**
Mechanical Engineering Department
BIET Jhansi (UP) Phone: 9450135681
Email:vijay@bietjhs.ac.in

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Director, BIET, Jhansi

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Mechanical Engineering Department

### Convener

Prof. Sanjay Agarwal (Professor)
Mechanical Engineering Department

### Convener

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### Co-Convener

Dr. Vijay Verma (Assistant Prof.)
Mechanical Engineering Department,

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**World Bank (TEQIP-III) Assisted**
**Short Term Course**
**On**
# "Recent Advances and Industrial Applications of Advanced Machining Processes" (RAIAMP-2019)"
**From**
**March 05-09, 2019**

**Convener**

Prof. Sanjay Agarwal
**Convener**

**Dr. Arun Kumar Pandey**

**Co-Convener**

**Dr. Vijay Verma**

***Organized by***

Department of Mechanical Engineering
Bundelkhand Institute of Engineering and Technology,
(An Academic Autonomous Govt. Institution)
Jhansi – 284128 (U.P.) INDIA

## 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

Rapid technological advancement after Second World War has led to the development of ultrahard, high-strength, high-temperature-resistant, difficult-to-machine materials for their increasing demand in technological advanced industries like aerospace, automotive, marine, power plants, missile, and turbine industries. Producing complicated geometries, least metallurgical transformations, and maintaining high dimensional accuracy in products made of such materials become extremely difficult with the conventional machining processes which necessitate the development of newer concepts in machining science.

## COURSE OBJECTIVE

The objective of this short term course is to enrich the knowledge of participants in the emerging areas of advanced machining and their recent industrial applications and to make participant aware of advancements occurring in this field. Furthermore, participants will be able to apply these concepts in their research work and they can add it into their course curriculum.

## COURSE CONTENTS

- Advanced Machining Processes
- Electrical Discharge machining
- Electro Chemical machining
- Laser beam machining
- Ultrasonic machining
- Water jet machining
- Hybrid and Assisted Machining Processes
- Micro and nano machining Processes
- Processing of Advanced Materials
- Modelling of Machining Processes
- Process parameters Optimization

**World Bank (TEQIP-III) Assisted**
**Short Term Course**
**On**

# "Recent Advances in Industrial Applications of Advanced Machining Processes" (RAIAMP-2019)"

**From**

**March 05-09, 2019**

### 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 RAIAMP-2019.

Date:

Signature
Head of the Department/ Institute