

## IMPORTANT DATES:

### For External Participants:

Last date of Registration: July 22, 2019

Notification about Selection: July 22, 2019

Participants' Confirmation: July 22, 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 PERSON

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Director, BIET, Jhansi

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Mechanical Engineering Department

### Convener

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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 in Micro  
Manufacturing” (RAMM-2019)”

From

July 23-27, 2019

Convener

**Prof. Sanjay Agarwal**  
**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. Microfabrications are the basis of manufacturing for nearly all modern miniaturized systems that are ubiquitously used in our daily life. Examples include; computer chips and integrated sensors for monitoring our environment, cars, mobile phones, medical devices and more. Producing complicated geometries, least metallurgical transformations, and maintaining high dimensional accuracy in products made of such materials become extremely difficult with the conventional Techniques.

## COURSE OBJECTIVE

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

## COURSE CONTENTS

- Advanced Manufacturing of micro systems
- Micro Electrical Discharge machining
- Electro Chemical machining macro and micro
- Micro Laser beam machining
- Micro-joining / micro-casting
- Micro and nano finishing Processes
- Processing of Advanced Materials
- Modeling of Machining Processes
- Process parameters Optimization
- Measuring techniques of micro manufacturing
- Applications of Soft computing Techniques

## World Bank (TEQIP-III) Assisted Short Term Course On "Recent Advances in Micro Manufacturing" (RAMM-2019)" From July 23-27, 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 RAMM-2019.

Date:

Signature  
Head of the Department/ Institute