

TEQIP-II Sponsored

Workshop on

Virtual Instrumentation in Mechanical Engineering (VIME-2017)

March 29-30, 2017

Chair Person/Co-ordinator

Dr. N. P. Yadav



Organized by:

Department of Mechanical Engineering
Bundelkhand Institute of Engineering
& Technology, Jhansi (U.P.)-284128

ORGANIZING COMMITTEE

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Director, B.I.E.T. Jhansi

Chair Person/Co-ordinator: Dr. N. P. Yadav
Head, MED, BIET, Jhansi

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Important Dates:

Receipt of application forms: 27-3-2017

Intimation about selection: 28-3-2017

REGISTRATION FORM

Virtual Instrumentation in Mechanical Engineering (VIME-2017)

[March 29-30, 2017]

Name: -----

Academic qualification: -----

Designation: -----

Institution: -----

Address: -----

E-mail: -----

Phone No: -----

Mobile Nos: -----

Area of specialization:-----

Accommodation needed: **Yes / No**

Signature of the applicant

Recommendation

(Signature and seal of Head of the
Institution/Head of the Department)

About the Institution

Bundelkhand Institute of Engineering & Technology Jhansi (BIET Jhansi) is one of the premier institutions imparting technical education established by Government of Uttar Pradesh. It is an Autonomous Institute (Granted by UGC). The BIET Jhansi has completed its 25 year of existence and celebrated the silver jubilee in the year 2011. During previous years, BIET has consistently focused on designing, practice oriented learning and contemporary industry-based curriculum. The institute continuously focuses to achieve the excellence in technical education, good quality research, community and consultancy services. The numbers of projects in the institute are supported by World Bank under TEQIP. The institute always attracts the finest faculty and the best of students for its Bachelor's, Master's and Doctoral's programs. B.I.E.T. has a rich tradition of pursuing excellence and continually re-invented itself in terms of academic programs and research infrastructure.

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., M.Tech. (Thermal Engg. and Manufacturing Science &Tech.) and Ph.D Programme with wide choice of specializations. The department has modern lab with specific research equipments purchase under TEQIP-II grant i.e. Hot Wire Anemometer, Temperature and Pressure sensors with high accuracy and response time with DAQ card. LabView for virtual instrumentation, Wire EDM, ZNC EDM, Computerized Hardness test, Wear test, Microscope etc. Department has well modern Virtual Class Room equipped with lecture recording and video conferencing systems. These facilities exposed to students for challenging research based academics. However department also encourage the students to sport, cultural and organizational activities on its vibrant campus.

Introduction

In order to meet challenges due to globalization of wealth and skill, and to meet increasing demand of reliable and sustainable product, India is emerging as one of the major product utilization and resource

focus. There are extensive demands from industry and research organization for technically skilled Mechanical Engineers and Researchers, capable to meet out the future challenges of society. Further, technological advancement is need of all human being and the wealth of every country is access by the utilization of various advanced in technology. Therefore, the virtual instrumentation in mechanical engineering are necessary to meet out the needs of future sustainable mechanical systems, because day by day the sources of conservative instrumentation resources are diminishing and demand is expected to rise sharply.

Objective

The main objective of the programme is to focus on various instrumentation concepts of mechanical engineering and how to meet out the need as well as future challenge of virtual instrumentation in mechanical engineering. The eminent personalities of various fields of Mechanical and Instrumentation will come at one platform to discuss the various aspects of virtual instrumentation in mechanical systems during this programme. They have done a lot of contribution in their respective fields. In their presence, we want to focus the recent development in the same field and their opinion to how to meet out the future requirements of the sustainable measuring systems in different areas. This programme is also beneficial to our faculty members to share their opinions among the various researchers and industries people. The research scholars of the Department/Institute will be beneficial to the opinion of various researchers in their respective research field. Therefore, our faculties, research scholars as well as other participants of various institutes, industries and research fields become beneficial to this programme.

The major topics of the programme are:

- Virtual Instrumentation and its scopes in mechanical engineering
- Concepts of LabVIEW based data acquisition
- Calibration of various type of measuring sensors through data acquisition and processing
- Thermal measurement techniques and data acquisition and processing
- Pressure and velocity measurement techniques and data acquisition and processing

- Motion and force measurement techniques and data acquisition and processing
- Controlling the measurement system as per need of the requirement.
- Flow behavior of flowing fluid
- The diagnosis of various phenomenon in combustion chamber
- Thermal behavior of Heat exchangers, Heat pipes

Lodging

Limited rooms are available in the Institute Guest House and accommodation may be arranged with prior information. In case of non availability of rooms in guest house, candidate will have to make his own arrangements

Venue

Virtual Class Room, Department of Mechanical Engineering, B.I.E.T Jhansi

Eligibility

Faculty members, Ph.D. Research scholars, PG students from AICTE recognized academic institutions/university and field engineers possessing minimum qualification Bachelors degree in engineering. Candidates pursuing their research in relevant area are also eligible to apply.

Registration

The participating faculty members from non-TEQIP-II Institution, Industries and Research scholar (PG & Ph.D. Research) need to send a non-refundable deposit of **Rs 500/-** in favor of "Co-ordinator, VIME-2017". Registration fee is exempted to few PG students of our institute.

Address for correspondence

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Chair Person/Co-ordinator, VIME-2017
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