

### SCOPE & OBJECTIVES

- To understand the technological developments in different methods of manufacturing technology such as non-traditional manufacturing, super plastic forming, rapid prototyping, powder metallurgy, Composite materials etc.
- To acquire knowledge of FEM in material processing
- To learn ceramic processing for refractory materials for high temperature applications.
- To learn different techniques of Non-destructive testing like ultrasonic, magnetic particle, eddy current, acoustic emission etc.

### COURSE CONTENT

- Concepts, methods, equipment, benefits and limitations of NTM and other manufacturing processes.
- Advances in processing methods of powder metallurgy like HIP and CIP etc.
- Methods of super plastic forming.
- Surface engineering like CVD and PVD coating of tools.
- Optimization procedure in manufacturing methods using software.
- Plasma processing of advanced materials.
- Introduction to MEMS, NEMS, Nanotechnology etc.
- Robotics and FMS
- Fault detection using NDT technique like ultrasonic, eddy current, acoustic emission etc.
- Latest developments in metal forming technology
- Failure analysis of materials
- Composite materials and ceramics
- Tribology
- Material Characterizations

### SPEAKERS

The course lectures will be delivered by the faculty members of VSSUT, Burla along with the invited guest faculties from reputed institutes like IITs, NITs & Industry personnel.

### ABOUT VSSUT, BURLA

Veer Surendra Sai University of Technology (VSSUT), Burla was formed by Odisha Act 9 of 2009 by converting University College of Engineering (UCE), Burla to a non-affiliating Unitary State University and came into force from 1<sup>st</sup> day of July 2009. The University has eleven departments covering all the major engineering, science and humanities disciplines, offering B. Tech, B. Arch, M. Tech, M. Sc and Ph. D programmes. It is situated very close to one of the longest earthen dam in the world known as Hirakud Dam. Apart from VSSUT, several renowned educational institutions like Sambalpur University and VIMSAR exist in Burla, small town in the district of Sambalpur. Burla is not only a educational hub but also a industrial township in the western Odisha containing two reputed industries like MCL and HINDALCO. It is well connected by railway network to the rest of India via Sambalpur. The VSSUT campus is about 10 kms from Sambalpur railway station



## QIP SPONSORED SHORT TERM COURSE ON

### ADVANCES IN MANUFACTURING, MATERIALS PROCESSING AND TESTING (AMMPT)

17<sup>th</sup> to 22<sup>nd</sup> April, 2017

### Application Form

1. Name (Block letter):
2. Designation & Pay-scale:
3. Organization:
4. Date of Birth:
5. Address for communication:

Pin Code:

Phone:

Fax:

E-mail:

#### 6. Academic Qualification (Please tick)

(a) B. Tech.      (b) M. Tech./M. SC      (c) Ph. D.

#### 7. Specialization:

#### 8. Experience (in years)

(a) Teaching      (b) Industrial      (c) Research

#### 9. Amount of TA requirement as per entitlement mentioned in the brochure (only for AICTE approved colleges) Rs.:

Please register me for the course of “*Advances in Manufacturing, Materials Processing and Testing*” to be held at VSSUT, Burla during 17<sup>th</sup> to 22<sup>nd</sup> April, 2017.

Place:

### SPONSORSHIP

#### For applicants from AICTE approved institutions

Prof./Dr./Mr./Ms. \_\_\_\_\_ is an employee of our institute and his/her application is hereby sponsored. The applicant will be permitted to attend the short-term course “**Advances in Manufacturing, Materials Processing and Testing**” at VSSUT, Burla to be held from 17<sup>th</sup> to 22<sup>nd</sup> April, 2017, if selected.

Date: \_\_\_\_\_ Signature of sponsoring authority

Official Seal: \_\_\_\_\_ Designation

The duly completed application should be mailed to:

**Dr. B. B. Pani & Dr. J. R. Mohanty**

Department of Mechanical Engineering,  
Veer Surendra Sai University of Technology,  
Burla,  
Sambalpur – 768018, Odisha, India  
Tel.: 918763653340/919437406971  
Fax:- 0663-2430204  
Email: bibhuti89@yahoo.co.in  
[guddy95@yahoo.co.in](mailto:guddy95@yahoo.co.in)

### ELIGIBILITY

The course is open to all teachers of degree level technical/engineering colleges/institutions approved by AICTE. No course fee is charged for participants sponsored by AICTE approved institutions. However, a caution deposit of Rs.1000/- has to be sent by the provisionally selected participants, which will be returned when participant joins for the course.

The payment is to be made by DD drawn on any Nationalized Bank and in favour of **Coordinator, AMMPT, payable at Burla.**

### FINANCIAL ASSISTANCES

Limited number of participants from the AICTE recognized institutions will be eligible for III AC to and fro railway fare\* (via shortest route from the place of work). Only the candidates attending the full course will be eligible for T.A. and D.A.

\* Tatkal reservation charges will not be reimbursed

### BOARDING & LODGING

Boarding and lodging facilities will be provided for the candidates from AICTE approved institutions in the University guest house.

### IMPORTANT DATES

The last date for receipt of duly filled applications is **31<sup>st</sup> March 2017**. Intimation of selection of candidature will be communicated through e-mail by **5<sup>th</sup> April, 2017**. Final selection notification will be given after receipt of DD and willingness to attend the course. Interested candidates may send an advance copy of the completed application by fax/email to avoid procedural/postal delay.

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17<sup>th</sup> to 22<sup>nd</sup> April, 2017



### Coordinators

**Dr. B. B. Pani  
Dr. J. R. Moahnty**

### Organised by



**Department of Mechanical Engineering**

**Veer Surendra Sai University of  
Technology, Burla  
Odisha-768018**