

## TEQIP-III Sponsored Faculty Development Programme

on

Advances in Materials & Machining  
processes for Recent Industrial  
Applications (AMMPRIA-2020)

7<sup>th</sup>- 11<sup>th</sup>September, 2020



### Coordinators

Dr. Pankaj Charan Jena  
Dr. Sudhansu Ranjan Das  
Associate Professor

Organized by



Department of Production Engineering  
Veer Surendra Sai University of Technology  
Burla, Odisha, 768018, India.  
[www.vssut.ac.in](http://www.vssut.ac.in)

## ELIGIBILITY

The programme is open to all members of AICTE/UGC affiliated Institutions/Universities i.e. Faculty Members, Research Scholars, PG Students.

**No course fee** is charged for participants sponsored by AICTE/UGC approved institutions.

### Selection and Certification Criteria:

Selection will be done based on first-cum-first-serve basis and the confirmed candidate will be notified on receipt of registration form latest by 9<sup>th</sup> September 2020. An online test will be conducted by the coordinator at the end of the program. The certificates shall be issued to those participants who have attended the program with minimum 80% attendance and scored minimum 60% marks in the test.

## IMPORTANT DATES

The last date for receipt of duly filled e-applications in google form link is **5<sup>th</sup>September, 2020**.

Intimation of selection of candidature will be communicated through e-mail/ WhatsApp by **6<sup>th</sup>September, 2020**.

### Guidelines:-

Session time will be from 10:00 AM to 4:30 PM.

### Registration Link:-

[https://docs.google.com/forms/d/e/1FAIpQLSrc7jF\\_qjkU7OFih0CfEegUy4C2xdMNQAaKHHQFO40q5poqg/viewform?vc=0&c=0&w=1&flr=0](https://docs.google.com/forms/d/e/1FAIpQLSrc7jF_qjkU7OFih0CfEegUy4C2xdMNQAaKHHQFO40q5poqg/viewform?vc=0&c=0&w=1&flr=0)

## SPEAKERS

The course lectures shall be delivered by the faculty members of VSSUT, Burla and eminent speakers invited from NITs, IITs, IMMT, DRDO reputed industries and other premier institutions.

### Patron:

Prof. Atal Chaudhuri

Honourable Vice-Chancellor, VSSUT

### Co-Patron:

Prof. U. R. Jena Das

Dean, CDCE

Prof. Amarnath Nayak

Coordinator, TEQIP

### Advisory committee:

Prof. B. B. Pati, Dean

Prof. S. K. Swain, Dean

Prof. P. C. Swain, Dean

Prof. J. P. Panda, Dean

### Chairman:

Dr. Kamal Pal

HOD, Production Engineering

### Coordinators:

Dr. Pankaj Charan Jena

Dr. Sudhansu Ranjan Das

### Executive committee:

Prof. D. Mishra

Prof. D. Dhupal

Dr. A.K.Rout

Dr. N. K. Kund

Dr. T. R. Mahapatra

Ms. S. Pradhan

Mr. B.K. Barik

Mr. P. Ekka

## OBJECTIVE

A good understanding of various newer methodologies and technological aspects of manufacturing and machining processes of engineering materials are essential for the academicians and researchers. Also, accurate modeling of the advanced structures is also very much essential for their optimum design and subsequent manufacturing. The prime objective of the course is to provide basic knowledge and experience to academicians and researchers from different experts to acquire a clear vision on Advances in Materials & Machining processes for Recent Industrial Applications.

The participants will have a comprehensive understanding of processing, modeling engineering materials, advanced manufacturing technologies and optimization.

## COURSE CONTENTS

The course content shall be, but not limited to the following:

- ✚ Introduction to advanced Materials: Aluminum, Magnesium, Titanium and Ni/Fe/Co super alloys, CFRP, GFRP etc and industrial applications
- ✚ Characterization: SEM, Electron back scattered diffraction, Microanalysis, Advanced Microscopic Techniques
- ✚ Manufacturing of advanced material structures and optimization.
- ✚ Modeling and simulation in manufacturing processes.
- ✚ Advanced Production technology such as 3D printing, 3D scanner, and industrial Robots.

## ABOUT US

Veer Surendra Sai University of Technology (VSSUT), Odisha (formerly known as University College of Engineering (UCE), Burla) was formed by Odisha Act 9 of 2009 by upgrading to a Unitary State University, which came into force from 1st day of July 2009. VSSUT is located at the foothill of famous Hirakud Dam – longest in Asia. Burla is known as Intellectual Capital of Odisha with VSSUT, VSS Institute of Medical Science and Research, Sambalpur University, MCL, WESCO and IIM Sambalpur. It is located 12 KM away from Sambalpur railway station and 3 KM away from Hirakud railway station. VSSUT, Burla has carved a niche for itself among the best technical institutes in India and is a dream institute for many budding engineers.

The University offers B. Tech, M.Tech, Dual Degree, M. Sc, Int. M. Sc., MCA and Ph. Ds. The university is surrounded by a large number of Government, public and private industrial sectors such as OHPC, HINDALCO, NALCO, NTPC, OPTCL, Vedanta Aluminium Ltd. and Bhusan Steel Plant. The institute has an excellent placement record with a number of top ranking companies visiting the campus every year.

## One Week Online FDP Programme on

### Advances in Materials & Machining processes for Recent Industrial Applications (AMMPRIA-2020)

7<sup>th</sup>- 11<sup>th</sup>September, 2020

### About the Department

The Production Engineering department was started in the year 1996 and presently is rich heritage of academic excellence, innovative curriculum, effective classroom teaching, application oriented practices, well equipped laboratories and updated workshops, excellent placement record, industry institute interaction and top of the line faculty members with outstanding research abilities. Now, the department of Production runs B. Tech, M.Tech.(Manufacturing Systems Engineering) and Ph.D. Programme.

### Contact for further information:

#### Contact address:-

#### Coordinator, "AMMPRIA-2020"

Department of Production Engineering,  
Veer Surendra Sai University of Technology  
Burla, Sambalpur-768018, Odisha, India.  
Mob: +91-8249268068 / 9937347205

E-mail: [ammpria2020@gmail.com](mailto:ammpria2020@gmail.com)