TEQIP-III Sponsored Faculty Development Programme on Advances in Materials & Machining processes for Recent Industrial Applications (AMMPRIA-2020)

7th-11th 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

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 9th 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 5th September, 2020.
Intimation of selection of candidature will be communicated through e-mail/ WhatsApp by 6th September, 2020.

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

Registration Link:-
https://docs.google.com/forms/d/e/1FAIpQLScFjK7jF_qjku7OFih0CfEegUy4C2xdMNQAAKHHQFO40q5pqqg/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
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.

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.**

**OBJECTIVE**

**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.

**COURSE CONTENTS**

**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