

QIP Short Term Course (STC)

on

**Composites: Manufacturing, Machining,
Modeling and Optimization
(CMMMO-2018)**

19th - 24th February, 2018



Coordinators

Dr. Trupti Ranjan Mahapatra

Associate Professor

Mr. Birendra Kumar Barik

Assistant Professor

Organized by



Department of Production Engineering
Veer Surendra Sai University of Technology
Burla, Odisha, 768018, India.
www.vssut.ac.in

ELIGIBILITY

The course is open to all teachers of degree level AICTE recognized technical Colleges/ Institutions. **No course fee** is charged for participants sponsored by AICTE approved institutions. However, a **caution deposit of Rs.1000/-** has to be paid by the provisionally selected participants, which will be returned when the participant joins for the course. All payments are to be made in the form of demand draft drawn on any Nationalized Bank and in favor of "AICTE QIP STC on "CMMMO" payable at Burla. Selection will be on first come first served basis and the number of participants is **limited to 30**.

FINANCIAL ASSISTANCE

Limited number of participants from the AICTE approved institutions only will be entitled up to III-AC to and fro railway fare* (via shortest route from the place of work). *Tatkal charges will not be reimbursed

BOARDING AND LODGING

Boarding and lodging facilities will be provided for all the outside participants from AICTE approved institutions in the University guest house at Burla in twin sharing basis.

SPEAKERS

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

IMPORTANT DATES

The last date for receipt of duly filled applications is **31st January, 2018**. Intimation of selection of candidature will be communicated through e-mail by **3rd February, 2018**.

Note: Interested candidates may send an advance copy of the completed application by fax/email to avoid procedural/postal delay.

SPONSORSHIP

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 "Composites: Manufacturing, Machining, Modeling and Optimization" at VSSUT, Burla to be held from 19th to 24th February, 2018, if selected.

Date: _____ Signature of sponsoring authority

Office Seal: _____ Designation

DD No: _____ Date:

Bank: _____ Amount:

Signature of the applicant

The duly completed application should be mailed to

**Dr. Trupti Ranjan Mahapatra/
Mr. Biren Kumar Barik**

Coordinator, QIP STC on "CMMMO-2018"
Department of Production Engineering,
Veer Surendra Sai University of Technology
Burla, Sambalpur-768018, Odisha, India
Mob: +91-9861425597/+91-8297969444
Fax:-0663-2430204

**E-mail: trmahapatra_pe@vssut.ac.in
birenbarik_pe@vssut.ac.in**

OBJECTIVE

A good understanding of various newer methodologies and technological aspects of manufacturing and machining of advanced composite materials are essential for the academicians and researchers. Also, accurate modeling of the advanced composite 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 in-hand experience to academicians and researchers from different disciplines to acquire a clear vision on recent development and technological advancement on composite materials from fundamentals to applications. The participants will have a comprehensive understanding of processing, basics of modeling of advanced composite structures, optimization of process parameters during their machining of composite structural components.

COURSE CONTENTS

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

- ✚ Composites: Manufacturing, Characterization (testing methods) and Applications
- ✚ Machining and Micromachining of Composites
- ✚ Modelling and simulation of Composite structures
- ✚ Structural (static, dynamic and vibro-acoustic) analysis of composite structure
- ✚ Optimisation methods and tools in Composite machining and Structural analysis
- ✚ Computer implementation for the composite material and component related to the modelling, simulation and optimisation with the aid of the commercially available packages (ANSYS/ABAQUS/DEFORM/MINITAB)
- ✚ Case study through lab based computer sessions and hand on practice

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.



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 runs B. Tech, M.Tech. (Manufacturing Systems Engineering) and Ph.D. Programme.

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

QIP Short Term Course on

**Composites: Manufacturing, Machining,
Modeling and Optimization
(CMMMO-2018)**

19th - 24th February, 2018

[Application Form](#)

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

Pin Code: Mobile:

E-mail:

6. Academic Qualification (Please tick)
(a) B.Tech. (b) M.Tech. (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 entitled "Composites: Manufacturing, Machining, Modeling and Optimization (CMMMO-2018)" to be held at VSSUT, Burla during 19th – 24th February, 2018.

Place:

Date:

Signature of the applicant