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Prof. Debabrata Dhupal

H.O.D., Production Engineering

Coordinators:

Dr. Trupti Ranjan Mahapatra

Dr. Arun Kumar Rout

Prof. Debadutta Mishra

Executive committee:

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Dr. Nirmal Kumar Kund

Dr. Pankaj Charan Jena

Dr. Sudhansu Ranjan Das

Ms. Anisha Ekka

Mr. Birendra Kumar Barik

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Ms. Sunita Sethy

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.

TEQIP-III Sponsored Workshop

on

Optimization Techniques and Applications in Manufacturing (OTAM-2019)

15th - 19th January, 2019



Coordinators

Dr. Trupti Ranjan Mahapatra

Dr. Arun Kumar Rout

Prof. Debadutta Mishra

Organized by



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

OBJECTIVE

Experimentation is a frequent activity of PG students, research scholars as well as the faculties of every branch of engineering and they usually use primitive strategies to carry on their experiments. An understanding of the Design of experiments (DOE) is very much essential to determine the relationship between factors affecting a process and the output of that process. Further, finding the best optimal parameter combination can lead towards improvement of the overall process efficiency. In order to find the optimum solution, minimize cost and to maximize production rate simultaneously; Single objective optimization as well as multi-objective optimization approaches should be explored. The objective of this workshop is to impart a holistic view of the fundamentals of experimental designs, analysis tools and techniques, interpretation. It also aims to provide basic knowledge and in-hand experience to the participants to acquire a clear vision on the diverse optimisation techniques from fundamentals to applications.

COURSE CONTENTS

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

- ✚ Fundamentals of experimental designs, analysis tools and techniques
- ✚ Analysis of Variance (ANOVA), Regression
- ✚ Full factorial design of experiments (DoE)
- ✚ Optimisation methods and tools in the domain of single or multi-objective optimisation: Grey Relation Method Taguchi based multi-response optimization, Genetic algorithm (GA), Particle swarm optimization (PSO) and Artificial Neural Network (ANN) in context of manufacturing/production engineering
- ✚ Case study through lab based computer sessions and hand on practice

REGISTRATION

Interested participants from industry, academic and research community are required to submit a filled and signed registration form in prescribed format along with the registration fees in the form of DD drawn in favour of "OTAM – 2019" payable at "Syndicate Bank, VSSUT, Burla" so as to reach us at the following address: "Coordinator, OTAM – 2019, Department of Production Engineering, VSSUT, Burla-768018, Sambalpur, Odisha, India. Hands delivered applications are also accepted. **There is no TA, DA and accommodation for the participants.** However, Limited accommodation on sharing basis is available for the participants in university Guest house based on first come first serve basis with nominal rate. Hotels at Sambalpur township are also available with a tariff ranging from Rs. 750/- to 1500/-per person depending on the quality of accommodation.

Note: Interested candidates may send an advance copy of the completed application by fax/email to avoid procedural/postal delay. Selected participants will be intimated via email on or before 10th January 2019.

Registration Fees

Category	Fee
Research Scholar/Student (VSSUT)	400/-
Research Scholar/Student (Others)	500/-
Faculty Member (VSSUT)	500/-
Academician/Faculty Member (Others) /Industry Person	1000/-

Registration fee includes workshop kit, workshop materials, participation certificate, high tea and lunch.

SPEAKERS

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

REGISTRATION FORM

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1. Name:
2. Designation:
3. Organization:
4. Qualification:
5. Gender: Male / Female
6. Address:
.....
.....
7. Phone/Mobile:
8. Email:
9. Mode of payment: Cash/DD/NEFT
10. Amount:

DD No: _____ Date: _____
Bank: _____ Amount: _____
Place: _____
Date: _____ Signature of the
applicant

The duly completed application should be mailed to:

Coordinator, "OTAM-2019"
Department of Production Engineering,
Veer Surendra Sai University of Technology
Burla, Sambalpur-768018, Odisha, India
Email: trmahapatra_pe@vssut.ac.in
Ph: +91-7978035018/+91-9861425597