Patron:

Prof. Atal Chaudhuri
Vice Chancellor, VSSUT

Co-Patrons:

Prof. U. R. Jena
Dean, CDCE
Prof. Amarnath Nayak
Coordinator, TEQIP VSSUT

Advisory Committee:

Prof. B.B. Pati, Dean Faculty & Planning
Prof. S.K. Swain, Dean Academic
Prof. P.C. Swain, Dean PGS & R
Prof. S.S. Das, Dean Students' Welfare
Prof. J.P. Panda, Dean SRIC

Chairman:

Dr. Kamal Pal
H.O.D., Production Engineering

Coordinators:

Prof. Debadutta Mishra
Dr. Trupti Ranjan Mahapatra

Executive committee:

Prof. Debabrata Dhupal
Dr. Arun Kumar Rout
Dr. Nirmal Kumar Kund
Dr. Pankaj Charan Jena
Dr. Sudhansu Ranjan Das
Ms. Anisha Ekka
Lt. Birendra Kumar Barik
Ms. Lipsamayee Mishra
Mr. Premananda Ekka
Mr. Sambeet Kumar Sahu
Ms. Smita Padhan
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 richheritage of academic excellence, innovativecurriculum, effective classroom teaching,application oriented practices, well equippedlaboratories and updated workshops, excellentplacement record, industry institute interaction andtop of the line faculty members with outstandingresearch abilities. Now, the department runs B. Tech, M.Tech. (Manufacturing Systems Engineering and Robotics and CAD/CAM) and Ph.D.

TEQIP-III Sponsored Online Workshop on

Optimization Tools in Manufacturing Process

(OTMP-2020)

8th – 9th September 2020

Coordinators

Prof. Debadutta Mishra

Dr. Trupti Ranjan Mahapatra

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 not only of production/manufacturing engineering but of every branch of engineering as well 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. The performance of the process can be improved by applying optimization to the simulation model with respect to its process control parameters. 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 academicians and researchers (specifically PG and PhD scholars) from different disciplines to acquire a clear vision on the diverse optimization techniques from fundamentals to applications. After successful completion of the workshop the participants will have a comprehensive understanding of the basics of optimization of process parameters during their machining and will be able to apply this knowledge for the optimal design and analysis of response of interest from an experiment.

COURSE CONTENTS

- Particle swarm optimization (PSO)
- Utility and TOPSIS
- Artificial Neural Network (ANN)
- Analytic Hierarchy Process (AHP)

ELIGIBILITY

The programme is open to Faculty Members, Research Scholars, PG/UG Students of AICTE/UGC affiliated Institutions/Universities as well as Industry Personnel.

REGISTRATION AND SELECTION

There is no registration fee for the participants.

Interested participants from industry, academic and research community are required to submit online application through The following Google form link or scanning the QR Code, if necessary.

https://forms.gle/x4zZFJyLKkLJ17DKA

- Total seat is limited to 50.
- Applicant will be selected based on first come first service.
- The selected applicants will be informed about his/her selection through Email/Whatsaap on 07-09-2020.

SPEAKERS

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

TEQIP III

TEQIP-III Sponsored Online Workshop

on

Optimization Tools in Manufacturing Process (OTMP-2020)

8th – 9th September, 2020

EVENT DETAILS

The workshop will provide a unique opportunity for participants to understand the recent advances in optimization tools implemented in Manufacturing Process. The events of the online workshop include:

- ❖ Inaugural Ceremony
- ❖ Technical sessions of 8 hours
- ❖ Q & A with experts
- ❖ Quiz Test and Valedictory Ceremony

✓ All the sessions will be conducted **ONLINE** in Googlemeet platform.

✓ An online test will be conducted by the coordinator at the end of the program.

✓ The E-certificates shall be issued to those participants who have attended the program with minimum 80% attendance and scored minimum 60% marks in the test.

For any queries regarding this programme, please contact:

The Coordinators “OTMP-2020”
Department of Production Engineering,
Veer Surendra Sai University of Technology
Burla, Sambalpur–768018, Odisha, India
Email: dmvssut@gmail.com
trmahapatra_pe@vssut.ac.in
Ph: +91-7978035018/+91-8895140999