AICTE sponsored Short Term Training Program on

Applications of Soft Computing in Power System (ASCPS)

2nd -7th Dec 2019

Coordinator
DR. SASMITA BEHERA

Organized by

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

ELIGIBILITY

The course is open for faculty member/ practice engineer/ industry professional/ research scholars.

REGISTRATION AND FEE

Interested participants are required to submit the prescribed application form to the Coordinator of this STTP on or before 15th Nov 2019 by post with title of the course on the top of the letter. There is no registration fee for the participants. TA as applicable will be provided to the outstation participants on production of supporting documents. Accommodation on sharing basis and fooding for attending this STC will be provided. Selection will be based on first come first served basis and the number of participants is limited to 45. Selected participants will be intimated through email on or before 20th November 2019.

VENUE

Seminar Hall, Department of Electrical Engineering, VSSUT, Burla

IMPORTANT DATES

Last Date of Submission of Application: 15/11/2019

Intimation of Selected Participants: 20/11/2019

STTP Schedule: 2nd -7th Dec 2019

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

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Application form

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

Pin Code: Mobile:

Email:
6. Academic Qualification (Please tick)
(a) B. Tech   (b) M. Tech   (c) Ph.D.
Specialization:
7. Experience (in years):
(a) Teaching   (b) Industry   (c) Research
8. Accommodation required: Yes/ No

Please register for the course "Applications of Soft Computing in Power System" to be held at VSSUT. Burla during 2th -7th Dec 2019.

Place:
Date:

Signature of the applicant

ABOUT THE UNIVERSITY

Veer Surendra Sai University of Technology (VSSUT), Odisha formerly known as University College of Engineering (UCE) Burla was established in the year 1956 as the first engineering college of the State and was upgraded to a Unitary State University which came into force from 1st day of July 2009 by Odisha Act 9 of 2009. VSSUT is located at the foothill of famous Hirakud Dam, the longest dam in Asia. This legendary university is named after Veer Surendra Sai, the great Indian freedom fighter. Burla is famous as Intellectual Capital of Odisha with VSSUT, Veer Surendra Sai Institute of Medical Sciences and Research (VIMSAR), Sambalpur University and Indian Institute of Management (IIM) Sambalpur. It is at a distance of 12 km away from Sambalpur railway station and 3 km away from Hirakud railway station. VSSUT, Odisha 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, MCA and PhD courses. The University is surrounded by a large number of government, public and private industrial sector organizations such as OHPC, Hindalco, NALCO, NTPC, OPTCL, Vedanta Aluminium Ltd, Bhusan Steel Plant, etc. The institute has an excellent placement record with a number of top ranking companies visiting the campus every year.

ABOUT THE DEPARTMENT

The department of Electrical Engg., one among the first branches to be instituted in 1956, with a 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. For the last several years the graduates of this department have been well received by the various sectors of the industry. Alumni from the department are enjoying very well respected positions in reputed organizations in and outside India.

COURSE OBJECTIVE

The prime objective of this course is to promote research and, it is expected to acquaint the participants with the soft computing techniques such as NN, Fuzzy Logic and optimization techniques and their limitations. Hands-on practice of MATLAB for soft computing application in power system is the main feature of this course. In addition real-time simulation in OPAL-RT will be demonstrated.

Also, the STTP aims to bring together scholars, innovative researchers, leading professionals, and industry professionals to exchange and share the research activities and discuss the practical challenges the solution strategy expected.

COURSE CONTENTS

- Introduction to problems in Power System
- Power system stability & FACTS devices
- Control issues and challenges in Microgrid
- Optimal placement of distributed generators
- Soft computing in signal processing for power system protection
- Integration of renewable energy sources and role of soft computing in forecasting, management and economic operation
- Hands-on practice of MATLAB for solving power system problems and testing in OPAL-RT in laboratory session

SPEAKERS

The course lectures shall be delivered by the faculty members of VSSUT, Burla and experts from NIT/IIT.

CONTACT DETAILS

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