SPONSORSHIP

For applicants from AICTE approved institutions

Prof./Dr./Mr./Mrs./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 "Application of AI Techniques to Power System Operation and Control (AAITPSOC)" at VSSUT, Burla to be held from 2nd - 7th May, 2016, if selected.

Date: Signature of sponsoring authority

Official Seal: Designation

The duly completed application should be mailed to:

Dr. R. K. Sahu
Dr. S. Panda
QIP Short Term Course
Application of AI Techniques to Power System Operation and Control
Department of Electrical Engineering
Veer Surendra Sai University of Technology, Burla
Sambalpur – 768018, Odisha, India
Tel.: +91-9439702316/9438251162,
Fax:- 0663-2430204
Email: rksahu_ee@vssut.ac.in
         panda_sidhartha@rediffmail.com

ELIGIBILITY

The course is open to all teachers of degree level technical/engineering colleges/institutions approved by AICTE. No course fee is charged for participants sponsored by AICTE approved institutions. However, a caution deposit of Rs.1000/- has to be sent by the provisionally selected participants, which will be returned when participant joins for the course. The payment is to be made by DD drawn on any Nationalized Bank and in favour of Coordinator, AAITPSOC-2016, payable at Burla.

FINANCIAL ASSISTANCE

Limited number of participants from the AICTE recognized institutions will be eligible for III AC to and fro railway fare* (via shortest route from the place of work). Only the candidates attending the full course will be eligible for TA and DA.

BOARDING & LODGING

Boarding and lodging facilities shall be provided by the University for the candidates from AICTE approved institutions.

IMPORTANT DATES

The last date for receipt of duly filled applications is 9th April, 2016. Intimation of selection of candidature will be communicated through e-mail by 18th April, 2016. Final selection notification will be given after receipt of DD and willingness to attend the course.

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

VEER SURENDRA SAI UNIVERSITY OF TECHNOLOGY ODISHA, BURLA

QIP SPONSORED SHORT TERM COURSE
ON
APPLICATION OF AI TECHNIQUES TO POWER SYSTEM OPERATION AND CONTROL (AAITPSOC)

2nd - 7th May, 2016

Coordinators
Dr. Rabindra Kumar Sahu
Dr. Sidhartha Panda

Organized by

Department of Electrical Engineering
&
Department of Electrical and Electronics Engineering
www.vssut.ac.in

SCOPE & OBJECTIVES

Modern electric power systems are considered among the most complex systems which are to be properly planned and safely operated. Power system stability problem has been continues to receive a great deal of attention over the years. The fast progress in the field of power electronics have opened new opportunities for the application of Flexible AC Transmission Systems (FACTS) Controllers to improve power system operational controllability and power transfer capabilities. Artificial Intelligence (AI) Techniques are methodologies that includes Artificial Neural Networks, Genetic Algorithms, Fuzzy Logic, Particle Swarm Optimization, Differential Evolution and their hybrids

The proposed course is expected to acquaint the participants in developing and applying AI techniques to power systems to ensure stable and secured operation. The objective is to impart knowledge about the recent trends in power system operations, control and to familiarize current scenario in power systems. The programme is aimed at researchers and practitioners who are engaged in developing and applying AI techniques to solve real world problems.

COURSE CONTENT

- Introduction to MATLAB/SIMULINK.
- Modeling and Simulation of Power System Components.
- Design and Analysis of Power Systems.
- Introduction to Artificial Intelligence (AI) Techniques.
- Application of AI Techniques in Power System Operation and Control.
- Flexible AC Transmission Systems (FACTS) in Power System.
- FACTS based controller design.
- Application of AI techniques for Automatic Generation Control.
- Application of AI techniques for Power System Stability Enhancement.
- Small Signal and Transient Analysis of Power System.
- Integration of Renewable Energies in Power System.
- SMART Grid Technology.

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.

COURSE MATERIALS

Each registered participant will be provided with a set of comprehensive lecture notes.

ABOUT US

Veer Surendra Sai University of Technology (VSSUT) Odisha was formed by Odisha Act 9 of 2009 by upgrading University College of Engineering (UCE), Burla to a non affiliating Unitary State University which came into force from 1st day of July 2009. The University has eleven departments covering all the major engineering, science and humanities disciplines, offering B.Tech., B.Arch., M.Tech., M.Sc. and Ph.D. programmes. VSSUT is located at the foothill of Hirakud Dam – World's longest dam. Burla is known as Intellectual capital of Odisha with VSSUT, Sambalpur University, VSS Institute of Medical Science and Research, Chipilima Agriculture College and Indian Institute of Management – all within a radius of 15 KMs. VSSUT is surrounded by metal and power industries and is referred as Odisha's "Growth Corridor". VSSUT campus is about 10 kms from Sambalpur railway station. Weather in Burla in May will be very hot. The participants are advised to take necessary precautionary measures.

ABOUT THE DEPARTMENT

Department of Electrical Engineering was established in the year 1956 with a vision to explore new methods of teaching and research. During last 5 decades, this branch has produced high standard and self motivated professionals to serve the humanity both nationally and internationally at par excellence. This short term course is also well supported by Department of Electrical and Electronics Engineering which is recently being established in the year 2010.

Veer Surendra Sai University of Technology
Odisha, Burla

QIP Short Term Course on

Application of AI Techniques to Power System Operation and Control (AAITPSOC)

2nd - 7th May, 2016

Application Form

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

Pin Code: Phone:
Fax: 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 "Application of AI Techniques to Power System Operation and Control (AAITPSOC)" to be held at VSSUT, Burla during 2nd -7th May, 2016.

Place:
Date: Signature of the applicant