PROFILE OF THE INSTITUTE

Vasavi College of Engineering is established in the year 1981 under the aegis of Vasavi Academy of Education, The college has been granted autonomy by the University Grants Commission, New Delhi and Osmania University, Hyderabad for all the programmes for a period of six years with effect from 2014-15. The college is currently offering 6 UG and 5 PG Programmes. All the six UG programmes are accredited by the NBA. The college has well qualified and experienced faculty.

ABOUT THE DEPARTMENT

The Department of Electrical and Electronics Engineering was started in the year 1999 offering BE programme in EEE. The Department has started PG programme in Power Systems and Power Electronics from 2012. It has well equipped and laboratories, well qualified experienced faculty with a deep sense of commitment towards the students. The department is a recognized research center under Osmania University.

ABOUT THIS FDP

Modern power systems are changing fast with Power plants based on Renewable Energy Sources (RES). The Solar PV Power Plant (SPP) and Wind Turbine Generator (WTG) are most widely used for generating power based on RES. These SPPs & WTGs generate power using Power Electronic Power Converters. SPPs are classified as (a) Stand alone type feeding a group of local loads (b) Grid-Tied Type connected only to the Utility Grid (c) Hybrid Type which are connected to a utility grid and in addition they also feed the local loads. Power generated by these SPPs & WTGs is not continuous, due to variations in weather conditions, like sunlight/ wind speed/ temperature of the atmosphere. Hence, Battery based Energy Storage Systems (BESS) in combination with Power Electronic Bi-Directional Convertor are being used to mitigate the limitations of discontinuous energy supply from SPPs & WTGs in RES. All these are creating new challenges and opportunities in developing new technologies and operation of the Power systems at various levels.

Many industries and academic institutions are extensively working to solve various issues related to the SPPs/ WTGs/ BESS and Power Electronic Bi-Directional Convertors. Considerable R&D work is in progress and this is results in advanced New Products.

Many of these developed products are already commercially deployed in view of energy efficient and reliable operation.

This FDP is designed to focus on creating know-how/ know-why on various aspects of Power Electronic Power Converters in RES, including issues related to their topology/ interconnection/ grid integration, battery energy storage systems/ Bi-Directional Convertor technologies, local generation and power flow control.

RESOURCE PERSONS

1. Dr. R.K.Pandey, Director General,NPTI,Faridabad
2. Prof. M.Sydulu, Professor, EED,NIT, Warangal
3. Dr. P.V. Rajgopal, GM (Retd.), BHEL, Corporate R&D
4. Dr.Subramanyam, Ex Deputy Director, CPRI, Bangalore
5. Prof. N.Vishwanathan, Professor, EED,NIT, Warangal
6. Dr. A.Kribakaran, NIT, Warangal
7. Dr. G.Shiva Kumar, NIT,Warangal
8. Dr. P.Chandra Sekhar,Asst.Prof, IIT,Bhubaneshwar
9. Dr. B.Mallesham,Professor,OUCE,Hyd
10. Dr. B.Mangu, Professor,OUCE,Hyd
11. Sri. A.Pampapathy, Director, Analogics Tech India.Ltd,Hyd
12. Sri A.Srinivas Nagaraja, Joint Director, M/s Poly Wires and Metals, Hyderabad
13. Sri. A.S. Naidu, GM,M/s Greenko Group, Kurnool
14. Sri.Rachappa, Executive Engineer, TSSPDCL
15. Mr.R.Venkatesh, Protection Engineer, GE, Hyderabad

TOPICS TO BE COVERED

- Smart Grid and their Implementations
- Application of AI Techniques in smart micro grids.
- Power Electronics Systems and their applications in Renewable Energy based Power Generation
- Solar Power Plants (SPP)/ Installation, Operation &Maintenance for Roof Top Applications.
- Battery Energy Storage Systems for Solar Power Plants.
- Bidirectional power converters for Battery Energy Storage Systems connected to Solar Power Plants Connected to Utility Grids
- Utility Grid Connected Solar Power Plant-System Design, Installation & Operation
- 1 MW Battery Energy storage system for Utility grid
- Energy Management System (EMS) and Its Implementation/ Demonstration
- WTGs & their Power Electronic Converters
- Power evacuation techniques from PV and wind sources
- Simulations of Power Systems and Power Electronic Convertors
- FACTs for Power Transmission Control
- Solar Grid Inverters in smart Grid Environment
- Hands on sessions on smart grid and renewable energy systems by PRDC

WHO CAN ATTEND?

The FDP is Open to the Faculty Members of AICTE approved Technical Institutions, Research Scholars, PG Students, Working Professionals fromR&D organizations & industry.

REGISTRATION AND FEE PARTICULARS

Number of participants is limited to Forty. The filled in application should reach the Coordinator on or before 30th November 2019.

Selected participants will be informed by 2nd December 2019.

There is no registration fee for faculty from AICTE approved institutions and Travelling expenses will be reimbursed to outstation participants as per AICTE norms subject to submission of original travel tickets.

Accommodation will be provided to the outstation participants only as per AICTE norms.

Registration for participating in the FDP may be done by sending the application (soft/hard copy) in the prescribed format duly signed by theconcerned Head of the institution.

Application forms may be downloaded from the college website: www.vce.ac.in

Registration can be done online at:
https://docs.google.com/forms/d/1UUFm8dz0KKe2FpMD6yhKwZk7TzxzsuXKz_QTKtGhCvw/edit

Note: Participantss who register online has to bring the hard copy of it with Head of the Institution signature on the first day of FDP for registration.

IMPORTANT DATES

Submission of Registration Form: 06/12/2019
Intimation of selection to the participants: 07/12/2019
Program dates: 9th to 21st December 2019

Filled in application form is to be sent to:

Coordinator, AICTE sponsored FDP on "Recent Advances in Power Systems and Power Electronics Applications in the Environment of Smart Grid and Renewable Energy Systems" EEE Department, Vasavi college of Engineering, Hyderabad-500031, TS

CONTACT:

Dr.K.Ravi Kumar, 8639517714, 040-23146031/39
Email: k.ravikumar@staff.vce.ac.in, **drkadali12345@gmail.com**
P.Ravi, 9989600881
Email: ravi.ponnala237@gmail.com

REGISTRATION FORM

AICTE
Sponsored Two Week
Faculty Development Programme (FDP)
on
"Recent Advances in Power Systems and Power Electronics in the Environment of Smart Grid and Renewable Energy Systems"

1. Name: _____
   (As to be printed in the Certificate)
2. Designation: _____
3. Institute / Organization: _____
4. Address for Communication: _____
   _____
   _____
5. E-mail ID: _____
6. Telephone /Mobile No: _____
7. Participation category:_____
   (Faculty/Industry/R&D/Research scholar/PG student)
8. Educational Qualification:_____
9. Experience(in years): Teaching:_____
   Research:_____ Industry:_____
10. Accommodation required: Yes/No
    (For outstation participants only)

Date : (Signature of Applicant)

Recommendation from the Head of the Institution

Dr./Mr./Ms._____
is an employee/ student of our institute/organization and is here by allowed to participate in the above mentioned FDP

Date: Signature

Seal and Signature
Head of the Institute

CHIEF PATRONS
Sri. P.Ram Mohan Rao
President, Vasavi Academy of Education
Sri. M.Krishna Murthy
Secrertary, Vasavi Academy of Education

PATRON
Sri. P.Balaji,
CEO, Vasavi College of Engineering

CHAIRMAN
Dr. S.V. Ramana, Principal

CO-CHAIRMAN
Dr. M. Chakravarthy, Professor & HOD-EEE

ADVISORY COMMITTEE
Dr. M. Sydulu
Professor, EED, NIT, Warangal
Dr. P.V. Rajgopal
Retd. GM, BHEL corporate R&D
Dr. P.M.Sarma
Professor, EEE

PROGRAMME COORDINATOR
Dr. K. Ravi Kumar
Professor, EEE Department

COORDINATION COMMITTEE

Dr. Ch.V.S.S.Sailaja, Assoc. Prof.
Mrs. G.Sandhya Rani, Sr Asst. Prof
Mr. M. Sreenivasulu, Sr Asst. Prof
Mr. G. Mahesh, Asst. Prof
Dr. G.Pranava, Asst. Prof
Mr. U.Elisha, Asst. Prof
Mr. N.Uday Kumar, Asst. Prof
Mr. P.Ravi, Asst. Prof
Mr. P.Rajasekhar Reddy, Asst. Prof
Mr. M.Dhanunjaya Rao, Asst. Prof

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9-21, December 2019

Organized by

Department of
Electrical & Electronics Engineering
Vasavi College of Engineering
(Autonomous)
(Sponsored by Vasavi Academy of Education Regd.)
(Approved by AICTE)
(Affiliated to Osmania University)
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