

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 by AICTE. 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 Undergraduate programme. The Department has started Post graduation 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.

ABOUT THIS STTP

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 Converter 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 Converters. 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 STTP 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 Converter technologies, local generation and power flow control.

TOPICS TO BE COVERED

- Power Electronics Systems and their applications in Renewable Energy based Power Generation
- Roof Top Solar Power Plants (SPP)/ Installation, Operation & Maintenance
- 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

RESOURCE PERSONS

1. Dr. PV Rajgopal, GM (Retd.), BHEL, Corporate R&D
2. Dr. BP Muni, GM, BHEL, Corporate R&D
3. Sri. A. Srinivasa Naidu, GM, M/s Greenko Group, Kurnool.
4. Sri MV Krishnaiah, AGM - Business Development, M/s Amara Raja Batteries, Hyderabad
5. Sri KS Srikantha, GM, M/s Windson, Chitradurga, Karnataka
6. Sri A. Srinivas Nagaraj, Joint Director, M/s Poly Wires and Metals, Hyderabad
7. Dr. B. Mangu, Professor, EEE, OUC, Hyderabad.
8. Dr. M. Chakravarthy, Professor & Head EEE Department, VCE, Hyderabad.

WHO CAN ATTEND?

The STTP is Open to the Faculty members of AICTE approved Technical Institutions, Research Scholars, PG Students, working professionals working in R&D organizations & industries.

REGISTRATION AND FEE PARTICULARS

Number of participants is limited to Forty. The filled in application should reach the Coordinator on or before 12th September 2019.

Selected participants will be informed by 13th September 2019.

There is no registration fee for faculty from AICTE approved institutions.

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 STTP may be done by sending the application (soft/hard copy) in the prescribed format duly signed by the 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/e/1FAIpQLSfYdEE-KB5yElCvQ9im9v3YLVGMvsnjpsp2uvaWYU0zvPaviA/vi ewform?vc=0&c=0&w=1>

Note: Candidates who registered online has to bring the hard copy of it with Head of the Institution signature on the first day of STTP for registration.

IMPORTANT DATES

For submission of application : 12/09/2019

Intimation of selected candidates: 13/09/2019

Program dates: 16th to 21st September 2019

Filed in application form is to be sent to:

Coordinator, AICTE sponsored STTP on "Power Electronics Applications in Renewable Energy Systems Technology status & Future trends"

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 one week STTP
on
“Power Electronics Applications in
Renewable Energy Systems
Technology Status & Future Trends”

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 of our institute/organization and is here by allowed to participate in the above mentioned STTP

Date: _____ Signature

Seal and Signature
Head of the Institute

PATRONS

Sri. P.Ram Mohan Rao
President, Vasavi Academy of Education
Prof. T.V.Subba Rao
Vice President, Vasavi Academy of Education
Sri. M.Krishna Murthy
Secretary, Vasavi Academy of Education
Sri. P.Balaji,
CEO, Vasavi College of Engineering

ADVISORY COMMITTEE

Dr. S.V. Ramana, Chairman
Principal, Vasavi College of Engineering
Dr. M. Sydulu
Professor, EED, NIT, Warangal
Dr. P.V. Rajgopal
Retd. GM, BHEL corporate R&D
Dr. M. Chakravarthy, Convener
Professor & HOD-EEE
Dr. P.M.Sarma
Professor, EEE

PROGRAM COORDINATOR

Dr. K. Ravi Kumar
Professor, EEE Department

COORDINATION COMMITTEE

Mrs. 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
Mrs. 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

AICTE

Sponsored one week
Short Term Training Program (STTP)
on
“Power Electronics Applications in
Renewable Energy Systems
Technology Status & Future Trends”

16-21, September 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)

9-5-81, Ibrahimbagh, Hyderabad-500031.

Phone: +91-40-23146039

Website: <http://www.vce.ac.in>

Coordinator

Dr. K. Ravi Kumar

Professor, EEE Department

Phone: 04023146031/39

Mobile:8639517714

Email: drkadali12345@gmail.com

k.ravikumar@staff.vce.ac.in