Course Content:

- Introduction to Smart Power Generation
- Electricity generation – matching production with demand
- Smart power generation – The road to the goal
- Introduction to Renewable Energy Systems
- Challenges and Opportunities in RESs
- Grid integration/security issues of Renewable Energy Systems
- Computational Intelligence/optimization methods and its applications in renewable energy systems
- Single/multi-objective optimization of power system operation with RESs

Organizing committee:

Chief Patron:
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Hon’ble Vice Chancellor,
Andhra University,
Visakhapatnam, Andhra Pradesh

Patron:
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Principal, AU College of Engineering (A)
Visakhapatnam, AP

Chairman:
Prof. V. Bapi Raju,
HOD, Electrical Engineering, AUCE (A)
Visakhapatnam, AP

Convener:
Dr. K. Vaisakh
Professor & Chairman, B.O.S
Dept. of Electrical Engineering

Co-Conveners:
(Dr.) K. Chandra Sekhar, Assoc. Professor
(Dr.) K. Padma, Asst. Professor
(Dr.) R. Srinu Naik, Asst. Professor
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Address for Correspondence:

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A Two Days Workshop on
SMART POWER
GENERATION AND
RENEWABLE ENERGY
SYSTEMS

22-23rd March, 2013

Organized by

ANDHRA UNIVERSITY
Visakhapatnam – 530003,
ANDHRA PRADESH
India
Objective of the Course

Developed in the context of the rapid development of smart power generation and the renewable energy industry, this programme is suitable for post graduates and faculty from engineering or other relevant subjects for pursuing a successful career in research, technological development and management, and the commercialisation of renewable energy systems.

The programme investigates both smart power generation and renewable energy systems technologies for improving the skills of scientific researchers, faculty and engineers who are competent in the R&D and engineering tasks applicable to the renewable energy and sustainable development sectors.

The key learning outcomes are a global understanding of the major types of renewable energy technologies, and smart power generation, in-depth knowledge of the technology for bioenergy and wind energy, and knowledge and skills in systems operation and optimization. The programme also provides you with opportunities to learn about other renewable energy technologies, energy sector economics with single/multi-objective optimization of power system with reneable energy systems, to further broaden your relevant knowledge through the MATLAB/SIMULINK programming environemnt.

Resource Persons:

The faculty from reputed institutions like IITs, NITs, and Department of Electrical Engineering, A.U. College of Engineering, will deliver the lectures in this workshop.

Eligibility:

The workshop is open to Faculty members, PG students, Research scholars and persons working in R&D organizations and Industries.

Venue

The Department of Electrical Engineering was started in 1955 as one of the three constituents of the Department of Engineering and grown to the status of full Department in 1969. The department currently offers an UG program in Electrical and Electronics Engineering and PG programs in Power Systems & Automation, Control Systems Engineering, and Power Electronics Drives & Control.

The department is active with several developmental activities in the emerging areas of CAD, Robotics and Power Electronics. The department has many well established laboratories. The department is active with several consultancy and research projects catering to the needs of industries/research institutes in and around Visakhapatnam.

The teaching faculty of the department has expertise in the areas of power electronics, control systems, and power systems. The current focus of research is on neuro/fuzzy control, optimal and non-linear control, soft computing methods for control and optimization of power systems.

Registration Fee for other Participants:
The registration fee must be paid through a demand draft drawn in favour of “Convener, SPGRES-2013, payable at Visakhapatnam, AP. The number of seats is limited and thus candidates are advised to register early.

<table>
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<tr>
<th>Type of Delegate</th>
<th>Rs/-</th>
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<tr>
<td>Industry</td>
<td>3000/-</td>
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<tr>
<td>Academic/ Research</td>
<td>2000/-</td>
</tr>
<tr>
<td>PG Students</td>
<td>1500/-</td>
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Accommodation & Transport:
Participants are advised to make their own arrangement for transport and accommodation. No TA/DA will be provided for the participants.

Important Dates:
- Last date for registration : 16-03-2013
- Intimation of selection (by email) : 18-03-2013

Two days workshop on

Smart Power Generation and Renewable Energy Systems

22-23rd March, 2013

1. Name (in block letters):
2. Designation:
3. Male/Female:
4. Organization:
5. Address for communication:

Pin: Ph. No’s:
Fax no: E-mail:
6. Highest Academic Qualification
7. Experience (in years):
   (a) Teaching: (b) Industrial:

Demand Draft Details:
No :- amount:-

Kindly register me for the workshop on “Smart Power Generation and Renewable Energy Systems” to be held at Andhra University, Visakhapatnam, AP.

Place:
Date: Signature of the applicant