About VIT

VIT, one of the premier institutes in India, established in1984. VIT is the first educational institution in India to get ISO 9002 certified by the DNV of The Netherlands and accreditation from IEE (UK). Further it has also been accredited by NAAC (UGC). Mission of VIT is to educate students from all over India, including those from the local and rural areas, and from other countries, so that they become enlightened individuals, improving the living standards of the families, industries and society. It provides individual attention, world-class quality education and takes care of character building. VIT was established the aim of providing quality higher on par with international standards dedicated to provide excellence in teaching, research and service. Our Memoranda of understanding to various international universities are our major strength. It also provides on opportunity on students and faculty exchange programme with international universities to encourage ioint research collaborations for mutual benefit. The campus has a cosmopolitan atmosphere with students from all parts of the globe.

The latest CAL Curriculum offered in VIT covers the latest developments in the respective discipline with focus on student projects and designed based on market needs, whereby employability, developing skills as entrepreneur and grooming students as young scientists are major priorities. VIT offers 36 Undergraduate, 31 Post-graduate, 4 Integrated and 3 Research programmes in 13 schools. VIT is also rising ahead in the number of publications along with H-index of 109. Research centers are also part of the schools. encouraging inter departmental collaboration and opportunity for students to participate in exciting research projects in Automotive research, Crystal research, Nanotechnology, Nano-biotechnology, Bioseparation Technology and Biomaterials, etc. technology for the country.

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Faculty Development Programme On

"Energy Management and Planning in Smart Cities"

1st February 2021 – 5th February 2021

Organized by



Department of
Energy and Power Electronics
School of Electrical Engineering
Vellore Institute of Technology, Vellore

Sponsored by

AICTE, New Delhi



AICTE Teaching and Learning Academy

Through Online Platform

About School of Electrical Engineering

The School of Electrical Engineering (SELECT) has over 93 faculty members who have done their UG and PG degrees from top-notch universities. The faculty members of this school are consistently doing well in teaching and research. Faculty members and students of SELECT frequently receive awards, prizes for outstanding research contributions in their respective fields. The school offers B.Tech. (EEE), B.Tech. (EIE), M.Tech. (PED), M.Tech. (C&I) M.Tech by Research and Ph.D. in Engineering. Both B.Tech. and M.Tech. programmes attract the brightest students from the country and abroad every year. The B.Tech. EEE and B.Tech. EIE Programmes are accredited by the Accreditation Commission ABET. Engineering http://www.abet.org. All UG & PG programmes of the school are accredited by the Institution of Engineering and Technology (IET), U.K. SELECT has industry sponsored advanced laboratories for doing research. Danfoss Advance Drives Lab, Schneider Electric Smart Energy Monitoring Lab, Q-Max Automated Test Engineering Lab(Alumni Sponsored Lab) and NxP Semiconductors, India, have established Centre of Excellence for students R&D activities under the guidance of faculty members and industry experts.

AICTE – Teaching and Learning Academy

AICTE - All India Council for Technical Education was established in 1945 by Government of India. The organization was set up as an Apex Advisory Body to conduct survey on facilities on technical education and to promote and develop technical education in the country. National policy of Education (1986) defines AICTE as the statutory authority for planning, formulation and maintenance of norms and standards, quality assurance through accreditation, funding in priority areas, monitoring and evaluation, maintaining parity of certification and awards, and ensuring coordinated and integrated development and management of technical education in the country.

The AICTE – Teaching and Learning (ATAL) Academy aims to plan and help in imparting quality technical education in the country and to support technical institutions in fostering research, innovation and entrepreneurship through training in various emerging areas. This academy aims at inculcating the drive for research and knowledge enhancement among the faculty members, Research scholars, PG scholars, and Industry personnel and hence the participants are expected to be from the above categories including participants from Government, Industry / Bureaucrats / Technicians / Participants from Industry

Scope of the workshop

Smart city is relatively a new concept intended to deal with or mitigate through the highest efficiency and resource optimizations, the problems generated by rapid urbanization and population growths, such as energy supplies, waste management and mobility.

Energy management us one of the most demanding issues within such urban centers owing to the complexity of the energy system. Planning and operation models within the smart city by classifying their scope in to the main intervention areas: generation, storage, infrastructure and transport. The study allows to develop a complete and adequate smart city energy model, one that will accessed both government, and industry to implement the best systems at minimum cost fostering smarter and more efficient cities,

Course Content

The following topics will be covered in different sessions:

- Distributed Generation and Integration of Renewable Energy sources in smart cities City
- Smart Energy Automation and Electric Mobility in a Smart City
- Gird Infrastructure and Demand based response in Smart city
- IOT based Home Energy Management in Smart city
- Energy storage technologies for Smart cities
- Wireless Smart grid Sensors
- Highway Power Generation and Utilization in Smart city
- Hands on Session on smart City Development

Resource Persons

Faculty members from IIT, NIT, VIT and reputed Industry will be conducting the theory and practical sessions in the FDP.

Who can attend?

The Faculty members, Research Scholars and PG Students from AICTE approved institution are eligible to the FDP. There is no Registration fee to attend this FDP.

Course duration

14 Online sessions in 5 days (1st February 2021 – 5th February 2021)

Total: 25 Hours

Selection and Certification Criteria

Participants should be from the Electrical and Electronics Engineering discipline. Selection will be based on first-come, first-serve basis. Preference will be given to new participants i.e., those who have not attended ATAL FDP earlier. Maximum 200 participants may be allowed to attend the online FDP. The selected candidates will be notified on or before 24th January 2021.

On completion of the programme, participants will be awarded an E-Certificate of participation by respective ATAL Academy. Minimum 80% attendance and 60% marks in the test are compulsory for certification.

How to Apply?

The participant has to register through ATAL portal

(https://atalacademy.aicte-india.org/login)