SSN COLLEGE OF ENGINEERING

Sri Sivasubramaniya Nadar College of Engineering (SSNCE) is the outcome of the vision and initiative of Padma Bhushan Dr. Shiv Nadar, Chairman of HCL Technologies Ltd. Established in 1996 on a sprawling campus of 250 acres on the Rajiv Gandhi Salai (OMR), the Institution offers eight B.E. / B. Tech. degree programs and ten M.E. degree programs in addition to MBA and MCA courses. This ISO 9001:2008 certified Institution has been accredited by NAAC with an ‘A’ Grade. All UG and PG programs have been accredited by NBA. The Institution consistently ranks first among all colleges affiliated to Anna University, Chennai. In DQ-CMR survey, SSN ranks 24th among all engineering colleges in India, ranks 23rd according to the HR perception-wise ranking and ranks fifth in south zone (the only private Engineering College among top 5). The Management awards over 400 scholarships worth Rs 4.3 crores every year to meritorious and deserving students. The College has Wi-Fi connectivity, e-learning enabled classrooms and state of the art laboratories and software.

DEPARTMENT OF EEE

The Department of Electrical and Electronics Engineering offers NBA accredited B.E. degree program in Electrical and Electronics Engineering and M.E. degree program in Power Electronics and Drives. The Department has 30 highly qualified faculty members including 14 PhDs. The Department is well equipped with state-of-the-art laboratories like Advanced Power Electronics lab containing special machines & Drives, Solar Energy Research lab, High Voltage Lab with 100 kV AC/ 140 kV DC source and UG & PG Simulation Labs with licensed softwares like MATLAB, MagNet, Labview, Pspice, PSim, FSCAD, MiPower etc. The department is a recognized Research Centre of Anna University. 76 scholars have registered for PhD under 9 supervisors and 21 PhDs have been awarded. Broad areas of research include Power Systems, Control & Dynamics, Renewable Energy Systems, Power Electronics & Drives, High Voltage, Special Machines and Optimization & Control techniques. The department has over 290 publications in International Journals and 372 in National/International Conference proceedings. The department has signed MoU with Danfoss Industries and has taken up research projects funded by AICTE, DST and MNRE. The Department has organized two International Conference, six National Conferences, six Faculty Development Programs sponsored by Anna University, three Short-term Training Programmes sponsored by AICTE – ISTE and many Workshops.

ABOUT THE WORKSHOP

The development of today’s electricity grids into smart grid is an important element for the sustainable economic, environmental and societal growth worldwide. This paradigm shift requires sophisticated power conversions. These innovative technologies allow for better integration of renewable energy sources and more efficient electrical transmission across the whole energy grid. This workshop will provide scientific and professional interactions for the advancement of the smart grid, distributed power systems, electric vehicles and traction systems, smart meters and renewable energy systems.

COURSE CONTENTS

- Basics of smart grid and smart meters.
- Integration of renewable energy sources in smart grids.
- Integration of electric vehicles into the smart grid.
- Control aspects in smart grids.
- Power converters for smart grids.
- Future electric power transmission in smart grids.
- Practical demonstration on smart meters & transmission lines.
REGISTRATION

- The workshop is open to the faculty of Academic Institutions, Students / Research Scholars and Professionals from Industry.
- The registration fee for the workshop is Rs. 750/-
- The registration fee should be paid in the form of Demand Draft drawn in favor of “The Principal, SSN College of Engineering”, payable at Chennai.
- Last date for receipt of registration form along with the registration fee is July 10, 2014 (The number of seats is limited entries and selection is based on first come first serve basis).

RESOURCE PERSONS

- Eminent experts from academia and industry will deliver lectures in the Workshop.

ACCOMMODATION & TRANSPORTATION

- Limited hostel accommodation is available for outstation participants and provided on payment, as per college norms, on advance intimation. Delegates can avail the transport facilities of the college. Bus routes and timings are available in the college website.