TEQIP II Sponsored, Short Term Training Program (STTP)
On "Electrical Engineering for Sustainable Development and Technical Writing Guidance",
From 8 - 12 February 2017
At Department of Electrical Engineering & Applied Mathematics and Humanities
Sardar Vallabhbhai National Institute of Technology, (SVNIT) Surat, Gujarat-395007
Course Coordinators: Dr. Vasundhara Mahajan & Dr. Urvashi Kaushal

1. Motivation:

In recent times computers have conquered our professional lives and are the biggest aid in writing, what cannot be forgotten is that writing is an art that can flourish with the artistic touch. Technical writing or writing used for communication requires certain nuances that are often unknown or overlooked by technical students and engineers. Similarly, in technical writing the fine points of writing in English language, especially when communicating globally are fundamental in framing the message correctly and effectively. Fortunately, writing is a skill that can be learnt, polished and perfected.

Hence, this programme will emphasise on integral techniques that constitute technical/professional writing. A cluster of topics will be covered by faculties with expertise in technical communication with the aim to add finesse to the writing skills of aspiring engineers. The programme will enhance the understanding of technical writing, language of research papers and writing for global readers. The efficient writing and editing tools such as MS-word, LATEX etc. will be demonstrated.

Sustainable development has become an increasingly important theme in local, national and world politics, and a central theme for the engineering professionals around the world. The sustainable development notion requires all of us – as engineers and citizens – to consider much more widely than before the impact of our own lives and of the infrastructure and products we produce, both geographically and temporally. With infrastructure and engineering products and processes becoming increasingly complex, engineers need to integrate consideration of whole-life environmental and social impacts – positive as well as negative – with the mainstream and commercial aspects of their work. Wise use of natural resources, minimum adverse impact and maximum positive impact on people and the environment are the targets. This is the time to make the necessary changes in our way of life if we are to live within the limited carrying capacity of Planet Earth.

The quest of technology development is in maintaining the balance between nature and machine. The recent technology is helping in building more efficient, reliable and sustainable systems. To maintain the sustainability of the system, the mathematical modelling and analysis has become an integral part. The theoretical concepts are explained and proved via mathematics. These concepts need validation so as to check its accuracy and effectiveness. The implementation and execution of any system are the artistic ways of linking imagination and innovation with the realism. The course focuses on some of the aspects of wise electrical engineering practices so as to inspire to make a difference and create positive impact in the society.

The experts will uncover the recent trends/renewable resources in power system engineering. The proposed course addresses the need for efficient production, transmission and utilisation of electrical power, and its operation and control. The restructuring and deregulation and its impact on power system planning and management will be explored. The basic modelling and simulation techniques for power system will be elaborated to the participants. This course will demonstrate the methodology of incorporating the technological advances and inclusion of renewable energy sources. The course aims to reach to the researchers/academicians who face problems in their initial phase of research/exploration. The course is uniquely designed by combining engineering and effective communication.

2. The course methodology includes:

a) The course will give insight of recent developments/renewable resources in electrical engineering.
b) The contribution of electrical engineering for green and sustainable development so as to reduce the adverse effects of technological growth.

c) This course will demonstrate the approach of integrating the technological advances and the implementation of sophisticated computing techniques. The emphasis will be on efficient utilization of energy and conservation of energy.
d) Participants will be able to relate and implement the knowledge to their research/projects/consultancy etc.
e) The technical writing methodology will be discussed so as to improve communication/writing skills.
f) Technical writing skills and tools will be demonstrated for efficient and fast writing.
g) The course will demonstrate/hands-on efficient use of MS-word, LATEX, reference management, editing figures, import/export data from/to MATLAB, arranging graphs and tables etc.

The eminent speakers from IITs/NITs/and other reputed Institutes will be invited for vast revelation and knowledge enrichment.

3. Registration and General Information:

The faculty members, *UG/PG/PhD students* of various technical Institutes/Colleges and industrial persons can apply for the course.

Completed applications of the participation for the course should reach in the attached format via post/courier/e-mail/in person at the given address on or before the last date. **The last date of reaching applications is *27th January 2017*.** The candidates will be informed of their selection through e-mail by ***30th January 2017*.** The list will be uploaded on Institute website.

Limited seats are available in this course hence shortlisting will be done on the basis of first come and first serve only. However, the candidates will be informed as soon as their completed application form reaches to the coordinator (via email or post). The decision(s) of the coordinator will be final in all cases and the applicant(s) is/are bound to follow. The breakfast, working lunch, tea and dinner will be provided to all the participants. The participants would not be paid any TA and/or DA. *The candidates can send the scan copy of **completed application form** and demand draft via email at vmahajan@eed.svnit.ac.in, vasu.daygood@gmail.com. However, the hard copy must be submitted at the time of registration. (Note: The demand draft/fees will be returned/refunded, if the candidate is not selected.)*

4. Accommodation

Suitably furnished accommodation will be arranged (if available), if requested in advance, in the hostels/guest houses of the SVNIT on nominal payment basis by participants for out stationed candidates on twin sharing basis. The accommodation and tariff details are available on SVNIT website. (http://www.svnit.ac.in).

* The family accommodation will not be provided in any case.

5. Course fee

(a) Academicians/College Teachers: Rs. 1500/-, *(b) UG/PG/PhD students: Rs. 1000/-*

(c) Delegates from industries: Rs. 5,000/-

The course fee to be paid through demand draft drawn on SBI in favour of "Director, SVNIT Surat", payable at "Surat" and should be sent along with the completely filled application forms. **The course fee can also be paid through Cheque drawn in favour of "Director, SVNIT Surat", payable at "Surat" and can be given at the time of registration.**
Please do not send banker's cheque.
(Note: The fees will be returned/refunded, if the candidate is not selected.)

6. Address for Communications:

Coordinator, "**Electrical Engg for Sustainable Development and Technical Writing Guidance**",
Dr. Vasundhara Mahajan, Department of Electrical Engineering
Sardar Vallabhbhai National Institute of Technology, (SVNIT)
Ichchhanath, Near Piplod, SURAT, Gujarat – 395007.
Tel: 0261-2201670, 2201562. E-mail: vmahajan@eed.svnit.ac.in, vasu.daygood@gmail.com.

Application Form

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Name of the applicant:……

Gender: (M/F)…… **DOB:**…….. **Age:**…….

Qualification and specialization:…….

Student (UG/PG/PhD): ……

Designation:…… **Experience:**……

Accommodation required? Yes/No:……

Address for correspondence: ……..……

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Sponsoring Institute/Industry address: ……

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Contact No.:……**Email:** ……..

Payment Detail: **Cheque/Demand draft No.:** ……**Date:** ……..……..

Amount (Rs.) …… **Drawn on (Bank Name with branch):**……

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Signature of the Applicant

The applicant will be permitted to participate in the above program if selected. Further, I have personally talked with the applicant and the applicant seemed to be sure to attend the course, if selected.

Date:…… ***Signature of Head of the Institution/Department with Seal***

*(*Note: The candidates can send the scan copy of completed application form and demand draft via email at vmahajan@eed.svnit.ac.in, vasu.daygood@gmail.com. However, the hard copy must be submitted at the time of registration.)*