

National Seminar

On

APPLICATIONS OF ELECTRICAL & ELECTRONICS SYSTEMS FOR ENERGY MANAGEMENT

(NSAEESEM-11)

April 1-2, 2011



Coordinators:-

Prof. (Dr.) S.N.Singh

Prof. (Dr.) Chhavi Garg

Co-Coordinators:-

Ms. Jyoti Sirohi

Mr.Pramod Kumar

Organised By:-

Aryan Institute of Technology

13 KM Stone, NH-24, Jindal Nagar

Ghaziabad-201002

THEME

The demand for electricity (usable form of energy) is expected to grow much faster in comparison with the other energy sources in next few decades. Present 50% of all energy consumption is in the electrical energy form for heating & motive power applications which, however expected to grow to 70-80% by 2050.

An Electrical & electronics system is the key technology to control the flow of electrical energy from the source to the load precisely according to the requirements of the load. It is responsible for the reliability & stability of the whole power supply infrastructure starting from the source, energy transmission & distribution for enormous applications in industry, transportation system & the household applications. Electrical & electronics system development cover from the extreme high (MW or GW) power in energy transmission down to the very low (mW) power needed to operate mobile phones. Therefore, there is a drastic need for energy saving & environmental protection.

Energy saving, improved efficiency & environmental protection are interrelated topics of continued interests internationally. Despite of the fact that efforts are ongoing in full swing to save energy.

The seminar aims at bringing together academicians, scientists & technologists working in universities, research institutes & industries at same platform to share their experiences, knowledge & expertise. The focus of the seminar will be on **APPLICATIONS OF ELECTRICAL & ELECTRONICS SYSTEMS FOR ENERGY MANAGEMENT** in particular & **energy management in general & related issues & challenges**.

SEMINAR TPOICS

Paper on any topic related with **APPLICATIONS OF ELECTRICAL & ELECTRONICS SYSTEMS FOR ENERGY MANAGEMENT** may be submitted. However, main theme of the seminar includes the following:

- 1- **CONCEPT OF ENERGY MANAGEMENT**
 - Approaches of Energy Management
 - Energy Management Strategy
 - Alternative sources of energy
 - Energy Auditing
 - Energy Management Software
 - Computer Applications
 - Economic Consideration
- 2- **ELECTRICAL & ELECTRONIC SYSTEMS APPLICATIONS**
 - Household Electric Appliances
 - HVAC Control
 - Lighting Power Electronics

3- QUALITY & RELIABILITY OF POWER SYSTEMS

- Power Supplies
- Power Quality
- Power Factor Correction
- Demand Response & Smart Grid

4- INDUSTRIAL PROCESSES

- Solid State variable speed drives
- Traction Drives & Control
- Fluid flow control equipment

5- MATERIAL & FUEL SUBSTITUTION

- Superconducting materials,
- Nano materials & others
- Alternate Energy Resources

SUBMISSION OF PAPERS

Research papers as per the seminar theme are invited for presentation at National Seminar **NSAESEM-11**. Authors are required to submit one soft & one hard copy of the abstract & full length paper in English. The length of paper should not exceed six pages. The paper should be typed on A4 size paper with single spacing in 10 point New Times Roman script & 25mm margin on all sides. The abstract of the paper should not exceed more than 300 words & it should cover the objective & scope of the proposed-work, methodology, significant results & conclusion, full name & address (including Telephone No. & email ID) & the author's affiliation. Abstract & full length

paper may be forwarded through email (in word format), on or before due date & subsequently mail one hard copy by post.

IMPORTANT DATES

Last date of submission of Abstract: Jan.27, 2011

Intimation of acceptance of Abstract: Feb. 12, 2011

Last date of submission of full paper: Feb. 28, 2011

Last date for Registration : Mar. 15, 2011

REGISTRATION FEES

Industry	1000 INR
Academics	500 INR
Students	200 INR

Demand draft should be drawn in favour of Aryan Institute of Technology, Ghaziabad payable at Ghaziabad. On the spot registration is also welcomed in cash or DD at the registration counter. For further details visit our website <http://www.aitgzb.ac.in>

Note: - No TA/DA will be paid to the participants except under special circumstances.

PROCEEDINGS

A souvenir incorporating seminar proceedings, messages selected papers & other contributions shall be released on the

occasion. Soft copy of the proceedings may be provided in the form of CD to all the registered candidates during the conference.

ACCOMODATION

Accommodation will be provided in the institute hostel on request only on nominal rate. Hotel accommodation in the range of Rs.500/- to Rs.2000/- per day can be arranged if advanced payment is received.

VENUE

The proposed seminar will be organized in the Institute Premises.

ORANISING COMMITTEE

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REGISTRATION FORM

National Seminar

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(NSAESEM-11)

April 1-2, 2011

First Name:..... Last Name:.....

Department & Designation.....

Institute:.....

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.....

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Please tick:

Paper Presentation : Yes/ No

Participation : Yes/ No

Registration Fee: Rs.....

Accommodation Required: Yes/No (If yes, From..... To....., No. of days.....)

Payment Details Amount:

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Date:

(Signature)