

Organized by
Electronics & ICT Academy



MNIT Jaipur

<http://www.mnit.ac.in/eict>

Refresher in

Power Electronics for Smart Grid and Renewable Energy Control

May 15-19, 2017

Venue: Prabha Bhawan, MNIT Jaipur

<http://www.mnit.ac.in/eict>

Faculty Development Programme
Sponsored by



Department of Electronics
& Information Technology
Ministry of Communications
& Information Technology
Government of India



Ministry of Electronics & Information Technology
Government of India

meity.gov.in/content/schemes-projects

**Chairman, Advisory Board, EICT Academy &
Director MNIT Jaipur**
Prof. Udaykumar R. Yaragatti

Academic Chair, EICT Academy
Prof. V. Sinha

Chief Investigator, EICT Academy
Prof. Vineet Sahula, ECE

Co- Chief Investigators, EICT Academy
Dr. L. Bhargava, ECE
Dr. Pilli Emmanuel Shubhakar, CSE
Dr. C. Periasamy, ECE
Dr. S. J. Nanda, ECE
Head, ECE (Prof. K. K. Sharma)
Head, CSE (Prof. M. S. Gaur)

Preamble (Electronics & ICT Academy)
Government of India had announced a National Policy on Skill Development, which has set a target of skilling 500 million people by 2022 in the domain of Electronics & IT. Under the plan scheme of "Digital India Manpower Development". DeitY has set up seven (07) Electronics and ICT Academies as a unit in 03 IITs, 03 NITs and 01 IIIT with an objective of faculty/mentor development/up gradation in the areas related to Electronics & ICT leading ultimately to improved employability of graduates/diploma holders. MNIT Jaipur has set up such an academy for providing specialized training to faculty and industry persons in the states/UTs of Rajasthan, Gujarat, Daman & Diu, Dadra Nagar Haveli.

(A) Issues-

1. IT Hardware and Electronics Manufacturing industry- availability of properly trained, skilled and qualified manpower
2. Number of quality PhDs generated in IT / Computer Science is very low
3. In E & ICT domain- there is a very high degree of obsolescence of existing technologies and faster emergence of newer technologies

(B) Approach-

1. A focused faculty training/updation programme for IT, Electronics and related sectors
2. Spreading up and continuous updation regarding Emerging Technology
3. Training and consultancy services for Industry
4. Design, Develop and Deliver specialized modules for specific research areas and Industry
5. Providing advice and support for technical incubation and entrepreneurial activities

An intensive one-week training programme is being organized for faculty of engineering and technological institutions. It is also open to persons from industry and doctoral students of Indian organizations. The objective is to provide an exposure to the participants to the recent trends in **Power Electronics for Smart Grid and Renewable Energy Control** through interaction with experts from academic CFTI institutions such as IITs/NITs/IIITs including host institution. The technical program will include state-of-the-art lectures, hands-on lab sessions, tool demonstrations, and discussion/presentation sessions.

Programme topics

- A. Grid connected and stand-alone PV system and associated controllers
- B. Grid connected and stand-alone Wind system and associated power controllers
- C. Energy management system in Microgrid
- D. Application of Artificial intelligent & Concept of Smart grid
- E. Electric vehicles (V2G & G2V) and their present scenario in smart grid
- F. Power Quality Issues, mitigation and Control
- G. Observer based coordinated control
- H. Power System Operation in Uncertain and smart grid Environment

Invited Experts –

Prof. Bhim Singh, IIT Delhi
Dr. Chinmay Jain, AGM Shakti Pumps
Dr. Sandeep Anand, IIT Kanpur
Prof. R. A. Gupta, MNIT Jaipur
Other Experts from IIT/NIT and industries

Programme coordinators

Dr. Arun Kumar Verma arun.ee@mnit.ac.in 9549650188 (M)
Dr. Vijaykumar Krishnasamy vijayk.ee@mnit.ac.in 9549659069 (M)

Registration

Registration is open to faculty, industry persons, doctoral and postgraduate students of programmes related to Electrical, Electronics, Control and Renewable. Participants will be admitted on a *first-come first-served basis*. Selected participants will be notified on or before 5th May 2017. Register on line at <http://www.mnit.ac.in/eict>

Fee

- (A). The one-time registration fee of Rs. 500/- is to be paid by each participant attending first time, irrespective of affiliation. This fee is not applicable for those participants, who have attended any Academy training programme earlier.
- (B). (i) The participants from academia and research scholars are required to pay a further fee of Rs. 2000/- (faculty/research-scholars). Rest expenditure is sponsored by DeitY through Electronics & ICT Academy at MNIT Jaipur.
(B). (ii) However, the participants from industries, UG/PG students would pay a further fee of Rs. 5000/-.
- (C). The fee covers the participation in the programme, registration material including tutorial notes, boarding (breakfast/lunch) on all the days of the workshop. The travel and other expenses would have to be borne by the participants or their parent-organizations.
- (D). Lodging for very limited number of outside participants is available on *first-come first-served and additional payment basis*.
- (E) The organizers should receive the registration amount through online payment/NEFT/IMPS/DD.

| | |
|---|--|
| Account Name- 'Electronics and ICT Academy MNIT Jaipur' | Account Number- 676801700483 |
| Bank address- ICICI Bank, MNIT Campus Branch, Jaipur | IFSC Code- ICIC0006768 |

(F). Please pre-intimate your desire to participate through e-mail, before registration form reaches us.

Further query:

- (a) Please visit us at: <http://www.mnit.ac.in/eict>,
<http://academymnit.wordpress.com>
- (b) Email us: academy@mnit.ac.in