Organized by
Electronics & ICT Academy

MNIT Jaipur
http://www.mnit.ac.in/eict

Refresher in

Synthesis algorithms for Digital Circuits & Systems

February 11-15, 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

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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 state-of-the-art in **Synthesis algorithms for Digital Circuits & Systems** 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

CAD Tools for optimization, Synthesis and optimization, Graph Optimization Problems and Algorithms ,
Boolean Algebra and Applications, Hardware Modeling using Verilog, Compilation and Behavioral Optimization, Control path and Data Path design,
Architectural Synthesis and optimization, Scheduling Algorithms, Resource Sharing and Binding,
Two-Level Combinational Logic Optimization, Multiple-Level Combinational Logic Optimization,
Sequential Logic Optimization, Retiming and optimization, Technology mapping for semi custom ICs and FPGA.

Invited Experts – Prof. Preeti Ranjan Panda, CSE, IIT Delhi;
other experts from IIT/NIT and industries.

Programme coordinators

Dr. Amit M Joshi, ECE	amjoshi.ece@mnit.ac.in	9549654239 (M)
Dr. Lava Bhargava	lavab@mnit.ac.in	9549654231 (M)

Registration

Registration is open to faculty, industry persons, doctoral and postgraduate students of programmmes related to Electronics, Computer engineering and Information technologies. Participants will be admitted on a *first-come first-served basis*. Selected participants will be notified on or before **5**th February 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[AT]mnit.ac.in