



FACULTY DEVELOPMENT PROGRAMME (FDP)

ON

ADVANCES IN ELECTRONIC DEVICE MODELING AND SIMULATION STUDIES

(5th–13th July 2021)

Organized by

Department of Electronics & Communication Engineering

Matrusri Engineering College, Saidabad, Hyderabad

in association with

E & ICT Academy, NIT Warangal

(Sponsored by Ministry of Electronics and Information Technology (MeitY), GOI)



Preamble:

"Electronics & ICT Academy" was set up at NIT Warangal with financial assistance from MeitY, GoI. The jurisdiction of this academy is Telangana, Andhra Pradesh, Karnataka, Goa, Puducherry and Andaman & Nicobar Islands. This academy role is to offer faculty development programmes in standardized courses and emerging areas of Electronics, Information Communication Technologies, training & consultancy services for Industry, Curriculum development for Industry, CEP for working professionals, Advice and support for technical incubation and entrepreneurial activities.

As part of an initiative, a Faculty Development Programme (FDP) on "ADVANCES IN ELECTRONIC DEVICE MODELING AND SIMULATION STUDIES" is being conducted by Department of ECE at Matrusri Engineering College, Saidabad, Hyderabad to the faculty of Engineering college and other allied disciplines in India. Industry personnel working in the concerned /allied discipline can also attend. The FDP covers recent trends in Semiconductor Devices and provides an insight knowledge in research topics with solutions.

Broad Topics to be covered in FDP:

- Basics- Modelling and Simulation
- Trends in VLSI
- CMOS VLSI Building Blocks & Design Issues
- Analog Design, Analog Layout issue & Challenges
- Low power Design Concepts & Introduction to Functionality of simulator
- A review on Memristors
- MOSFET Scaling – Issues & Solutions, Double-gate MOSFET Modeling
- Research – FinFET & NWFET

Lab Session:

- Analog Design
- Compact device modeling using VerilogA
- Visual TCAD

Resource persons:

E&ICT Academy takes responsibility of organizing lectures by academicians from reputed institutes in India.

Eligibility:

The program is open to the Faculty of Engineering Colleges and other allied disciplines in India. Industry personnel working in the concerned /allied discipline can also attend.

Registration Fee Particulars:

Faculty and Research Scholars	Rs.750/-
Industry Participants	Rs.2250/-

Participants need to pay the Registration Fee Online using the following details:-

Online Transfer Details
Account Name: Electronics & ICT Academy NITW
Account No: 62423775910
IFSC: SBIN0020149

How to apply:

Participants are required to fill the online registration form by clicking on the following link:-

<https://forms.gle/exnG5pMjAcpkLpQz5>

Selection Criteria:

Selection will be done based on first-come-first-serve basis to a maximum number of 100 (hundred). The list of selected participants will be intimated through e-mail. In case a candidate is not selected, the DD/online payment will be sent back. Candidates will be issued satisfactory certificates on successful completion of the course. Reservations are followed for selecting candidates as per GOI norms.

Important dates:

Last date for submission of Application	28/06/2021 (11:59 PM)
Selection List by E- mail	30/06/2021 (11:59 PM)
Duration of the programme	05/07/2021 (Monday) to 13/07/2021 (Tuesday)

About NIT Warangal:

National Institute of Technology, Warangal is the first among 17 RECs setup as joint venture of the Government of India and the state government. Over the years the college has established itself as a premier Institute imparting technical education of a very high standard leading to the B.Tech degrees in various branches of engineering, M.Tech. and Ph.D programs in various specializations. All eligible B.Tech and M. Tech programmes of NIT Warangal are NBA accredited.

About Matrusri Engineering College:

It was with a lofty vision coupled with a sublime mission that a galaxy of farsighted and distinguished engineers, doctors, accountants, lawyers, businessmen and administrators of Hyderabad established the Matrusri Educational society in 1980 which founded Matrusri Engineering College, at Saidabad in Hyderabad in 2011 offering BE courses in Civil Engineering, Computer Sciences & Engineering, Electrical & Electronics Engineering, Electronics and Communication Engineering and Mechanical Engineering. All B.E programmes of Matrusri Engineering College are NBA accredited in 2019. The college runs with the elevated aim of being a pioneer in technical education with a team of highly qualified and experienced faculty members and state of the art equipment in all departments. The college takes the pride of sending out 6 batches of students, many of whom have taken their engineering degrees with flying colors making the flag of the college fly aloft.

Coordinators:

1. Dr. Pallavi Khare
Assoc. Prof., Dept. of ECE
Matrusri Engineering College, Hyderabad
Email: pallavikhare@matrusri.edu.in
Mob: 08500522227

2. Dr. Maheshwaram Satish
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1. Name :

responsibility to inform the Coordinator in case, I am unable to attend the course

2. Designation :

SPONSORSHIP CERTIFICATE

3. Institution :

Dr. /Mr. /Ms. is

4. Email :

an employee of our Institute/Organization and is hereby

5. Mobile No:

sponsored to participate in the FDP on “ADVANCES IN

6. DD. No:

ELECTRONIC DEVICE MODELING AND SIMULATION

Bank:

STUDIES”, sponsored by Electronics & ICT Academy during

Date:

05-07-2021 to 13-07-2021.

Amount:

7. Address for Correspondence:

Signature of Head of Institution

8. Educational Qualification:

(with seal)

9. Subjects taught so far:

Address for correspondence

Post your application form

10. No. of refresher courses/workshops attended:

Dr. Pallavi Khare (Coordinator)

11. Experience (in years):

Assoc. Prof, Dept. of ECE, MATRUSRI ENGG COLLEGE

Teaching:

Research:

Industry:

16-1-486, Saidabad, Hyderabad-500059

12. Accommodation required: YES /NO

pallavikhare@matrusri.edu.in

Mobile : +91-8500522227

13. Do you belong to SC/ST : YES /NO

(If yes, please specify and attach a copy of caste certificate to claim the concession)

For more details about Electronics & ICT Academy,

NIT, Warangal, please visit: <https://nitw.ac.in/eict>.

And <https://matrusri.edu.in/>

Declaration

The information provided is true to the best of my knowledge. If selected, I agree to abide by the rules and regulations of the FDP and shall attend the course for the entire duration. I also undertake the

• *For more enquiries please contact: Mobile:*

+91-8500522227, 08919910824

Signature of the Applicant

Coordinators

Dr. Maheshwaram Satish

Assistant Professor

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Dr. Pallavi Khare

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