

About the Department

The mission of Department of Electronics and Communication Engineering is 1) to prepare students with strong theoretical and practical knowledge by imparting quality education, 2) to produce comprehensively trained and innovative graduates in Electronics and Communication Engineering through hands on practice and research to encourage them for entrepreneurship 3) to inculcate team work spirit and professional ethics in students.

About the Institute and Kurukshetra

National institute of Technology (NIT) Kurukshetra, formerly known as Regional Engineering College, Kurukshetra was founded in 1963. Over the years, the college has established itself as a premier Institution imparting technical education of high standards, leading to the B.Tech. degree in various branches of engineering, M.Tech and Ph.D. programs in different specializations. With a view to give further impetus to the technical education, the Central Government upgraded REC to NIT, and conferred the Deemed to be University status.

Kurukshetra is known for its rich historical and religious heritage. It is one of the premier pilgrimage center attracting devotees all round the year. Kurukshetra is very well connected by Rail, Delhi-Ambala section, by Road (NH1, connecting Delhi-Chandigarh-Amritsar-Jammu) and by Air (Delhi 160 km and Chandigarh 80 km). NIT Kurukshetra campus is situated about 10 km from Pipli, Bus stand located on NH1 and about 4 km from Kurukshetra railway station.

Travel and Accommodation

Course fee covers only course material and refreshments. Boarding and lodging will be provided on payment basis subject to availability. Limited shared accommodation is available in Institute Guest House/Hostels on request against the advance payment on first-come first-serve basis. No TA/DA will be paid to the participants. Meals will be arranged in hostel on payment basis on request.

CHIEF PATRON

Padma Shri Dr. Satish Kumar
Director, NIT Kurukshetra

PATRON

Dr. Vikas Mittal
Associate Professor and Head, ECED
NIT Kurukshetra

Course Coordinator

Dr. Shweta Meena
Assistant Professor, ECED
NIT Kurukshetra

Contact Information

Dr. Shweta Meena
Department of Electronics and Comm. Engg.
NIT Kurukshetra-136119
Ph: (M) +91-720-639-3419
Email:
mail2shwetameena@nitkk.ac.in

Registration Fees Details

IEEE EDS Student Member	Rs. 500
IEEE EDS Member	Rs. 1000
UG/PG/Research Scholar	Rs. 700
Faculty (IEEE Membership)	Rs. 2000
Faculty (Non-IEEE)	Rs. 2500
Industry and R&D Organizations	Rs. 5000

A Five-Day Short-Term Course (STC) On

Recent Trends in Nano-Electronics and VLSI (RTNV)

18th – 22nd Dec, 2018

Sponsored by IEEE Electron Device
Society Delhi Chapter



Coordinator

Dr. Shweta Meena

Organized by

Department of Electronics and Communication
Engineering
National Institute of Technology
Kurukshetra-136119, Haryana, India

Objectives of the Course

- To train academicians, research scholars, PG and UG Students on recent trends in Nano-Electronics and VLSI.
- To provide hands on training to the participants.

Course Contents

- Review of Si-MOSFET-Bulk, GAA, DG
- FinFET and Junctionless MOSFET
- TFET, HEMT, Field Plate HEMT
- Charge Transport in 1D and 2D Materials
- Nanowire Transport
- Quantum transport in Carbon-based Devices
- Magneto- and Quantum-Confined Transport
- VLSI Interconnects
- Hands on using Synopsis QuantumWise ATK, CADENCE and MATLAB Tools
- Research issues and suggestions

Highlights of the Course

- Major topics of the course will be covered by **Prof. Vijay K. Arora, Professor, Wilkes University, USA**. He is a senior **IEEE EDS Distinguished Lecturer**.
- He is **American Electrical Engineering Educator and Researcher**.
- He has developed **quantum theory for the study of modern nanoelectronic devices**. Prof. Arora has been honored with countless achievements and awards, including **Leading Educators of the World, Great Minds of the 21st Century, International Who's Who of the 20th Century, Leading Intellectuals of the World** and many more.
- Expert Talk by other IEEE EDS Distinguished Lecturers, Industry Expert from Semi Conductor Laboratory (SCL), Department of Space, ISRO and faculty from NITs/IITs.



Eligibility

- The course is open to all AICTE approved engineering college Faculty, Research Scholar, PG, Final Year UG students working in any Engineering discipline and people working in Industry/R&D Organization.
- Brochure and registration form can also be downloaded from: <http://www.nitkkr.ac.in>.

How to Apply

- Registration fee can be paid through DD in favor of "Director, NIT Kurukshetra" payable at SBI, NIT Kurukshetra (Code: SBIN0006260) or online through SBI-Collect.
- The Registration form filled in all respect with the original DD can be send by post to the mentioned Address or the scanned copy of the completed registration form with SBI-Collect receipt can be mailed to: mail2shwetameena@nitkkr.ac.in.

ONLINE Fee Payment Through SBI Collect

Step 1:

<https://www.onlinesbi.com/sbicollect/icollecthome.htm>

Accept & Proceed

Step 2: Select State and Type of Corporate/Institution (Haryana and Educational Institutional)

Step 3: Select from Educational Institutions (Director National Institute of Technology, Kurukshetra)

Step 4: Select Payment Category (**Registration fee for STC on RTNV 2018**), Proceed (Fill the details & Submit)

Important Dates

Last date (Application & DD)	8th Dec 2018
New last date for application	14 th Dec 2018
Selection List by E-mail	10th Dec 2018
New date for selection list	15 th Dec 2018
Duration	18 th – 22 nd Dec 2018

Registration Form

IEEE EDS Delhi Chapter Sponsored
Short-Term Course (STC)

On

Recent Trends in Nano-Electronics and
VLSI (RTNV)

(18th – 22nd December 2018)

1. Name (Dr./Mr./Ms./Mrs.):
2. Designation:
3. Organization:
4. Address for correspondence:
-
-
5. Phone:
6. E-Mail:
7. Qualification:
8. Accommodation required* : Yes/No

Payment Details:

Draft/Online Details:

Date:

Issuing Bank: Amount:

Signature of Applicant (with Date)

Sponsoring Authority:

Name:.....

Organization:.....

Recommended:

(Signature of Head of the Department/ Section/School/
Institute with Seal)