

About Kurukshetra

Kurukshetra is a place of great spiritual significance deeply steeped in history and mythology where Lord Krishna delivered the divine message of "Shrimad Bhagwad Gita". It is one of the premier centre of pilgrimage attracting devotees in a steady stream all-round the year. Kurukshetra is a very well connected by Rail (Delhi-Karnal-Ambala section), by Road (NH1 which connects Delhi-Chandigarh-Amritsar-Jammu) and by Air (Delhi 160 Km and Chandigarh 80 Km). The NIT Campus is about 10 km from Pipli, which is situated on NH1, and about 4 km from Kurukshetra railway station.

About National Institute of Technology Kurukshetra (NITK) (Institution of National Importance)

NITK (founded as Regional Engineering College, Kurukshetra in 1963) was conferred upon the status of Deemed University on June 26, 2002. The Institute has B.Tech., M.Tech., MBA and MCA courses in various disciplines with annual intake of about 1500 students. Institute also offers excellent facilities for advanced research in the emerging areas of Science and Technology leading to Ph.D. degree. The institute has well qualified and dedicated faculty along with splendid supporting staff, laboratories and other infrastructure. The infrastructure is geared to enable the institute to produce technical personnel of high quality.

About the Electronics and Communication Engineering Department (ECED), NITK

The Department offers 4 year B. Tech program in ECE with various electives leading to sub-specialization in Communication, VLSI, Signal

and image processing etc. M. Tech. and Ph.D. program are offered to provide opportunity to the students to do research in various niche areas of ECE stream. Various research projects from MHRD and DRDO are being pursued in the Department. The Department endeavours to provide interdisciplinary support to various engineering streams for exploring various applications of ECE.

Patron

Padma Shri Dr. Satish Kumar, Director, NITK

Course Convener

Dr. Vikas Mittal, HOD - ECED

Coordinators

Dr. Rajender Kumar, Assistant Professor - ECED

Er. Jagan Nath, Technical Officer - CCN

Important Dates

Last date of Registration: Feb. 15, 2018

Notification about Selection: Feb, 15, 2018

Registration form should be sent to:

NIGS-2018, Electronics and Communication Engg.

Deptt., NITK - 136119

Soft copy via email: iotnitk@gmail.com

And hard copy at the time of registration

For any query contact via mail or phone

Mobile: +91-8950603123, +91-9466442202

Short Term Course On Networking of IoT (Device to Gateway) and Security: A Bootcamp

(NIGS-2018)

(February 16-20, 2018)



**Department of Electronics and Communication
Engineering**

**National Institute of Technology Kurukshetra
Kurukshetra-136119,
Haryana, India**

REGISTRATION FORM
Short Term Course On
Networking of IoT (Device to Gateway) and
Security: A Bootcamp
February 16-20, 2018

Name: _____
Date of Birth: _____
Designation: _____
Organization: _____
Address for correspondence:

Phone: _____
E-mail: _____
Qualifications: _____
Experience: _____ Years
Accommodation required: Yes / No
Payment details:
Draft/Online Details with date: _____
Issuing Bank: _____ Amount: _____

(Signature of applicant)

Sponsoring Authority:

Name: _____
Designation: _____
Organization: _____
Recommended: _____

Signature of Head of Department/School/Institute

Course Objectives

Today, Due to the IoT revolution – the industries are looking for innovative solutions from the academia to help them meet their market needs of higher productivity and lower costs, yet at increased efficiencies. Bridging this industry- academia gap is need of the hour whereby an insight by academic institution is required to ensure that promising research takes place which can be easily translated into useful products and an industry representative can discuss some of their hurdles.

The course aims to galvanize the urgent needs of both Industry and Academia towards fostering ‘IoT-revolution’. Course will cover the key constituents of IoT i.e. the IoT device, Sensors (with wireless modules), Gateways to connect to external world, the scripting language Python for IoT modeling and critical challenges of security associated with IoT networking. Hence the participant will learn the IoT device modeling and programming associated with embedded device. This Bootcamp will help participants to identify R&D framework and current open challenges in the IoT Industries. Additionally, this course will be a major step towards realizing a mechanism for institutionalizing industry-academia collaborations.

Course Contents

Hands on sessions/ Laboratory sessions on following key topics:

- Basics of Python scripting
- IoT device level frame work and programming
- Wireless Sensor Modules for IoT device & Gateway
- Security challenges in IoT deployment.
- An Insight to Advanced Sensors, Arduino, RPi, etc
- Role of IoT Industries- Intel, Cisco, Siemens, Keysight etc
- Future scopes in IoT networking and applications
- Project proposal writing (R& D Projects)
- IoTs IPR perspective.

Who should attend (... Very Limited Seats)

Faculty members / research scholars / PG/ UG students from academic institutes approved by the AICTE /UGC /MHRD and Scientists / Engineers working in private / Public/ Govt. organisations / industries etc. can attend the course. Application should be made on the registration form and should accompany registration fee as below:

S. No.	Participants Category	Course Fee (Rs.)
1.	UG/ PG	500
2.	Ph. D. Students	1000
3.	Faculty	1500
4.	Industry	2000

Accommodation for participants can be arranged in hostel/guest house on nominal payment basis subject to the availability. No TA/ DA will be paid to the participants. Participants will be selected on first-come-first served basis. The registration form, complete in all respects, duly forwarded by the Head of the Department/School/Institute, accompanied by Demand Draft/Online details of requisite amount should reach on or before Feb.15, 2018. Registration fee is to be paid in advance through a bank demand draft in favour of “**Director, NIT Kurukshetra**” payable at **SBI, NIT Kurukshetra** or online through **SBI Collect**. The brochure with registration form can be downloaded from Institute website www.nitkkr.ac.in.

Excellent sponsorship opportunities are available with benefits like wide publicity and business gains. Exclusive slots will be provided on the basis of sponsorship extent/amount.