

## KURUKSHETRA

Kurukshetra is described as DHARAMKSHETRA, with historical and religious importance. Here, the battle of Mahabharata was fought, and Lord Shree Krishna preached the philosophy of "KARMA" as enshrined in the holy book "Shrimad Bhagwad Gita." 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). The NIT Kurukshetra campus is situated about 10 km from Pipli, Bus stand located on NH1 and about 4 km from Kurukshetra railway station.

## NATIONAL INSTITUTE OF TECHNOLOGY KURUKSHETRA

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

## ELECTRONICS AND COMMUNICATION ENGINEERING DEPARTMENT (ECED), NIT KURUKSHETRA

The ECE Department runs with the following Vision and the Objectives:

**Vision of the Department:** To impart state-of-the-art Electronics and Communication Engineering Education and Research responsive to global challenges.

### Mission of the Department:

**M1:** To prepare students with strong theoretical and practical knowledge by imparting quality education.

**M2:** To produce comprehensively trained and innovative graduates in Electronics and Communication Engineering

through hands on practice and research to encourage them for entrepreneurship.

**M3:** To inculcate team work spirit and professional ethics in students.

### PATRON

Padma Shri Dr. Satish Kumar,  
Director, NIT Kurukshetra

### CO-PATRON

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

### CONVENER

Prof. Umesh Ghanekar and Dr. Vrinda Gupta  
ECE Department, NIT Kurukshetra

### COURSE COORDINATOR

Dr. Sudakar Singh Chauhan and Dr. Gaurav Verma  
ECE Department, NIT Kurukshetra

### IMPORTANT DATES:

- Last date for submission of registration form: 02<sup>nd</sup> April, 2019.
- Date of Intimation of selection (on website or by email): on or before 04<sup>th</sup> April, 2019.

**Note:** Intimation of acceptance will be communicated through website/email.

### Address for Correspondence:

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**Self-Financed**

**Short Term Course**

**on**

**Wireless Communication  
and Signal Processing with  
hands-on in MATLAB  
(WCSPHM-2019)**

**(April 08-13, 2019)**



**Organized by**

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

## REGISTRATION FORM

### Self-Financed Short Term Course on Wireless Communication and Signal Processing with hands-on in MATLAB (WCSPHM-2019) (April 08-13, 2019)

Name: \_\_\_\_\_

Title (Dr./Mr./Mrs./Ms.): \_\_\_\_\_

Sex (M/F): \_\_\_\_\_

Date of Birth: (dd/mm/yyyy) \_\_\_\_\_

Designation: \_\_\_\_\_

Organization: \_\_\_\_\_

Address for correspondence: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Phone: \_\_\_\_\_

E-mail: \_\_\_\_\_

Qualification: \_\_\_\_\_

Category of Registration: \_\_\_\_\_

Accommodation required\*: Yes / No

#### Payment details:

Draft/Online Details \_\_\_\_\_

Date: \_\_\_\_\_

Issuing Bank: \_\_\_\_\_ Amount: \_\_\_\_\_

Signature of applicant (with date)

#### Present Organization/Institute:

Name: \_\_\_\_\_

Organization: \_\_\_\_\_

Recommended: \_\_\_\_\_

(Signature of Head of the Department/ Section/ School/  
Authorized Person)

## COURSE OBJECTIVES

It is not an exaggeration to say that the Signal Processing is the need of wireless communication. The signal processing and wireless communication are two most promising and evergreen areas of research. In These area, **MATLAB** is the backbone in presenting the simulation results and analysis.

A lot of research is being done in these areas. However, due to continuous updates in these two revered areas of research, the researchers need to remain updated of the current techniques and concepts. It is also equally important to have proper knowledge of the basic concepts, models and mathematics relevant to these research areas. In view of above, the proposed short-term course is bounded to provide fundamental concepts as well as the recent signal processing and wireless communication technologies and concepts with the **hands-on practice in MATLAB** for carrying a fruitful research in these fields.

## COURSE HIGHLIGHTS

The course aims to address the following issues related to the wireless communication and signal processing techniques with the **practical sessions on MATLAB**.

- Fundamentals of Wireless Communication, Signal Processing and Image Processing
- Wireless channel impairments and removal techniques.
- Image filtering using MATLAB.
- Wireless Sensor Networks, OFDM and Cognitive Radio Technology.
- The basic and most needed concepts in Image Processing and Signal Processing with the research point of view.
- Physical Layer Security concept & challenges.
- The Optimization techniques and Future wireless communication technology.

## WHO SHOULD ATTEND?

Faculty members/ research scholars/ students from academic institutes, Engineers working in Private/ Public/

Govt. organizations/ industries etc. can attend the course. The applications should be made on the registration form as given in the left of this page, and should accompany registration fee as below:

Registration category	Registration fee* (in Indian Rupees)
PG Students (Limited Seats)	250/
Research Scholars	500/-
Faculty	1000/-
Industry	2000/-

\* No registration fee is required for the ECE Department (NIT Kurukshetra) PG students and research scholars.

\* Registration fee is non-refundable

Participants will be provided High tea during the sessions. However, limited accommodation is available in the hostel/ guest house. The accommodation and the meals can be arranged on the request of the participants on payment basis, separately. No TA/ DA will be paid to the participants. Participants will be selected on first-come-first served basis.

### ONLINE Fee Payment Through SBI Collect

**Step1:** <https://www.onlinesbi.com/sbicollect/icollecthome.htm>, Agree & Proceed. **Step2:** Select State and Type of Corporate/Institution (put Haryana and Education Institution). **Step3:** Select from Educational Institutions- (Director National Institute of Technology, Kurukshetra) **Step4:** Select Payment Category-(STC on WCSPHM 2019), then Proceed (Fill the details & Submit) and take the print out. The brochure/registration form can also be downloaded from the Institute website [www.nitkr.ac.in](http://www.nitkr.ac.in)

### Submission of Completed Registration Form

The scanned copy of the registration form completed in all respects, along with the scanned copy of the payment slip of SBI Collect should be received on mail: [gaurav@nitkr.ac.in](mailto:gaurav@nitkr.ac.in), on or before April 2, 2019.