

## 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. 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.

### COURSE OBJECTIVES

The short-term course aims to cover wide range of elementary and advanced topics in signal processing and communication technologies, giving in-depth treatment to many key areas such as signal and image processing, computer vision, signal estimation and detection, optical signal processing, non-orthogonal multiple access (NOMA), 5G, etc. The main objective of this course is to provide an opportunity for research scholars, faculty members and industry personals to get an exposure to the advanced signal and image processing, machine learning and modern communication technologies. The course is designed for both beginners and experts, and will be focussed to give an insight into the fields through discussion of necessary theoretical backgrounds.

### PATRON

Dr. B.V. Ramana Reddy,  
Director, NIT Kurukshetra

### CO-PATRON

Dr. Brahmjit Singh  
Professor and Dean (P&D), NIT Kurukshetra

### CONVENER(s)

Prof. Karan Sharma  
Asso. Prof. and Head, ECE Department  
Dr. Vrinda Gupta  
Associate Prof., ECE Department

### COURSE COORDINATOR

Dr. Gaurav Verma  
Assistant Prof., ECE Department

### IMPORTANT DATES:

- Last date to submit registration form and payment receipt: **15<sup>th</sup> July, 2023.**
- Last date for Intimation of selection (by email): on or before **16<sup>th</sup> July, 2023.**

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

### Address for Correspondence:

Dr. Gaurav Verma  
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NIT Kurukshetra-136119  
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Email: [stenitkkr@gmail.com](mailto:stenitkkr@gmail.com)



### Short Term Course

on

## Advances in Communication and Signal Processing Techniques

(ACST-2023)

(July 19-23, 2023)  
(Hybrid mode)



Organized by

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

## RESOURCE PERSON

Eminent speakers proposed to deliver the expert lectures:

- Dr. Debashis Ghosh, IIT Roorkee
- Dr. Saurav Khanna, IIT Roorkee
- Dr. Viany Gopi, NIT Trichy
- Dr. Binod Kumar, ABV-IIITM Gwalior
- Prof. Saurav Tiwari, Samsung R&D

## COURSE HIGHLIGHTS

The course aims to address the following issues related to the rapidly evolving communication and signal processing fields.

- Foundational concepts in signal processing and communication systems.
- Recent advances in signal processing, computer vision and communication techniques.
- Introduction to deep learning & machine intelligence and their applications in the field of signal processing and communication systems.
- Fundamental concepts related to the optical signal processing.
- Signal estimation and detection for wireless communication
- Non-orthogonal multiple access (NOMA) and 5G technology

## WHO SHOULD ATTEND?

Faculty member/research scholars/students from academic Institutes approved by the AICTE/ UGC/ MHRD and Scientists/Engineers working in Private/ Public/Govt. organizations/industries etc. can attend the course. The application should be made on the registration form and should accompany registration fee as follows:

Participant's category	Registration fee*	
	Online	Offline
Research Scholars/Students	Rs. 200/-	1000/-
Faculty	Rs. 500/-	3000/-
Industry/ R&D / Govt. Organization	Rs. 1000/-	6000/-
Foreign Delegate	\$ 50	\$200

\* This STC Brochure is also available at institute website. Registration fee is non-refundable

### STC Registration and query Notes:

Participants will be provided High-Tea during the sessions. However, limited accommodation is available in the hostel/ guest house. No TA/ DA will be paid to the participants. The registration form (included in the brochure), completed in all respects, and accompanied by SBI Collect Payment receipt should be uploaded to google form available at: <https://docs.google.com/forms/d/1aCqiuM4R9oUZ1n5CjISfbucsBoG6HzBLAzA94QgsI8c/edit>

For any query please contact to: 7404433060,9466435828 or email id: stcnitkr@gmail.com

### Registration Fee Payment:

- Step I: Go to the SBI Collect link <https://www.onlinesbi.sbi/sbicollect/icollecthome.htm>
- Step II: Select category as “Educational Institutions”, then filter by state as “Haryana”.
- Step III: Select Educational Institutions Name as “Director National Institute of Technology, Kurukshetra”.
- Step IV: Select Payment Category as: “ACST 2023”, then submit
- Step V: Fill the form, pay the fees and submit finally.
- Step VI: Do save the transaction receipt to communicate us and for future use.

## REGISTRATION FORM

### Advances in Communication and Signal Processing Techniques (ACST-2023) (July 19-23, 2023)

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 for Registration: \_\_\_\_\_

Accommodation required\*: Yes / No

### Payment details:

Transaction Number \_\_\_\_\_

Date of Transaction: \_\_\_\_\_

Name of person doing payment: \_\_\_\_\_

Amount: \_\_\_\_\_

Signature of applicant (with date)

(Signature of Sponsoring authority/ Supervisor/ Head of the Department / Institute)

\*Signature is needed only if sponsored