

KURUKSHETRA

Kurukshetra is popularly known for its historical and religious importance. Here, the battle of Mahabharata was fought, and Lord Shree Krishna delivered the as enshrined in the holy book “Shrimad Bhagwad Gita”. It is also known as DHARAMKSHETRA and it attracts devotees from all corners of world all-round the year. Kurukshetra is very well connected by Rail, Delhi-Ambala section, (NH1, connecting Delhi-Chandigarh-Amritsar-Jammu) and by Air (Delhi 160 km and Chandigarh 80km). The NIT Kurukshetra campus is situated about 10 km from Pipli, Bus stand located on NH1 and about 4km 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 & COMMUNICATION ENGINEERING DEPARTMENT, NIT KURUKSHETRA

The branch of Electronics and Communication Engineering was started in the year 1971 under the aegis of Electrical Engineering Department. The “Department of Electronics and Communication Engineering” came into existence in the year 1973. In 1987, Computer Engineering branch was also started and the department was renamed as “Electronics, Communication and Computer Engineering”. In 2003, the department was again renamed as “Electronics and Communication Engineering” because of inception of “Computer Engineering Department” separately. The department started M.Tech. program in ECE and VLSI design in the year of 1987 and 2007, respectively. Presently, M.Tech. (VLSI Design) is being offered by the School of VLSI Design and Embedded Systems independently.

PATRON

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

Co-PATRON

Dr. Vrinda Gupta
HOD, ECED

CONVENER

Prof. Umesh Ghanekar
Professor, ECED
NIT Kurukshetra

COURSE COORDINATORS

Dr. Arvind Kumar
Associate Professor, ECED, NIT Kurukshetra

Dr. Shweta Meena
Assistant Professor, ECED, NIT Kurukshetra

IMPORTANT DATES

- Last date for submission of filled
Registration Form: **20th May, 2023**

Address for Correspondence:

Dr. Shweta Meena and Dr. Arvind Kumar
Coordinator, IPAM-2022

**Department of Electronics & Communication
Engineering**

NIT Kurukshetra-136119, India

**Email: mail2shwetameena@nitkkr.ac.in
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Short Term Course

On

Image Processing and its Applications Using MATLAB

(IPAM -2023)

(27th -31st May, 2023)



Organized by

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

Objective of STC

The STC is concerned with the basics of Image Processing and its applications using MATLAB. Rapid development of Image Processing and computer technology has affected all the scientific areas. In the same time, programmers were working on designing different algorithms for Image Processing using MATLAB. Not long time after creating MATLAB, it became very popular, especially among teaching faculties. Many libraries have been developed, among them Image Processing Toolbox is one of them. It gives multiple opportunities of illustrating mathematical equations. 'Normal' applications lose with MATLAB in the area of an image recognition and filters adaptation. It also gives a lot of possibilities for creating linear and nonlinear filters. High level programming language that hides unnecessary details from designers can definitely be considered as an asset too. In order to decide if MATLAB is the right tool to implement a software with, the future programmer has to take a closer look on the main purpose of the Image Processing applications.

Contents to be covered

Following topics will be covered during the Course

- Basics of Image Processing
- Single Image Super-resolution (SISR)
- Image Dehazing
- Noise Removal
- Steganography
- Image Forensic, etc.

RESOURCEPERSONS

The resource persons will be from premier Institutions of India like IITs, NITs, and experts from Industries/ Govt. organizations.

Who can attend?

Faculty members/ 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. However, faculty members and research scholars engaged in Ph.D. will be greatly benefited. The application should be made on the registration form and should accompany registration fee as mentioned below:

Participant's category	Registration fee*
Students/Research Scholars	Rs. 250/-
Faculty	Rs.1000/-
Industry/R&D/Govt. Organization	Rs. 2000/-

***Registration fee is non-refundable.**

Registration fee includes course certificate and refreshment during STC.

The Registration fee is to be paid through Demand Draft in favor of the Director NIT Kurukshetra, A/C Number: 10116885013, Branch: SBI NIT Kurukshetra, IFSC Code: SBIN0006260, Branch Code: 006260.

How to Apply

Interested candidates can send the scanned copy of the registration form along with demand draft to the given email.

Note: Please note that registrations will be accepted on a first come first serve basis. During STC, food and accommodation will not be provided by the organizers. Participants are required to bring their laptops along with MATLAB installed in it.

Registration Deadline: 20th May, 2023

REGISTRATION FORM Short Term Course on

'Image Processing and its Applications Using MATLAB'

27th May to 31st May 2023

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

Name (in BLOCK LETTER):

Qualification:

Sex (M/F):

**Date of Birth:
(dd/mm/yyyy)**

Designation:

Organization:

**Address for
correspondence:**

Phone:

E-mail:

Category (Please Tick):Students/ Faculty/Industry/R&D /Govt. Organization

Payment Details

**Demand Draft
Number:**

Date of issue:

Amount:

Attachment(s)

Original Demand Draft

Signature of applicant (with date):

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Short Term Course

on

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Title: (Dr./Mr./Mrs./Ms.):
Name (in BLOCK LETTER):
Qualification:
Sex (M/F):
Date of Birth: (dd/mm/yyyy)
Designation:
Organization:
Address for correspondence:
Phone:
E-mail:
Category (Please Tick): Students/ Faculty/Industry/R&D /Govt. Organization
<u>Payment Details</u>
Demand Draft Number:
Date of issue:
Amount:
Attachment(s) Original Demand Draft
Signature of applicant (with date):