

## About NIT Kurukshetra

National Institute of Technology, (Formerly Regional Engineering College, established in 1963) Kurukshetra is one among the foremost institutes of national importance imparting higher technical education in India. This Institute was conferred upon the status of Deemed University on June 26, 2002. Since then, it has been named as National Institute of Technology, Kurukshetra (Deemed University). National Institute of Technology, Kurukshetra is a residential institute well known for its dedicated faculty, staff and state-of-the-art infrastructure. The institute offers B.Tech. M.Tech. M.C.A.M.B.A and Ph.D. programmes. The Institute enjoys an excellent placement service for its graduate and post graduate students.



## About Kurukshetra

Kurukshetra- the land of the Mahabharata has traditionally been the epicenter of learning. The message of Bhagavata Gita is believed to have been delivered by Lord Krishna at this place. In addition to its spiritual significance, the city of Kurukshetra has steadily developed into a center of academic excellence.

## How to Reach

Kurukshetra is well connected with road/rail. It is a railway junction on Delhi-Ambala section and is situated on National Highway No. 1 (G. T. Road). It is approximately 160 km from Delhi and 100 km from Chandigarh. NIT Kurukshetra is about 10 km from Pipli and 6 km from Kurukshetra railway station.

## About Department

The Department of Computer engineering offers B.Tech (in Computer Engineering and Information Technology), M.Tech (in Computer Engineering and Cyber Security) and Ph.D. programmes. Since its inception Department has witnessed exponential growth in emerging areas of Distributed Computing, Software Engineering, Computer Networks, Database and Data Mining, Natural Language Processing, Information and Cyber Security, Image Processing. The Department is well equipped with all state-of-the-art hardware, software resources and simulation software packages providing all necessary computing facilities to the students, faculty and staff.

## Important Dates

Last date of registration: **Jan 03, 2018**  
Intimation of acceptance: **Jan 05, 2018**

## Correspondence Address

### 1. Dr. Ritu Garg

Coordinator – AOTE-18, COE Department,  
National Institute of Technology, Kurukshetra-136119  
Email: ritu.59@nitkkr.ac.in  
Ph: 01744-233493, 9896114469(M)

### 2. Dr. Poonam Jindal

Coordinator – AOTE-18, ECE Department,  
National Institute of Technology, Kurukshetra-136119  
Email: poonamjindal81@nitkkr.ac.in  
Ph: 9466620527(M)

## Short Term Course On Advanced Optimization Techniques for Engineering Applications (AOTE-18)



**(13.01.2018 – 17.01.2018)**

### Coordinators:

Dr. Ritu Garg  
Dr. Poonam Jindal



Organised by-  
**Computer Engineering Department**  
**National Institute of Technology, Kurukshetra,**  
**Haryana – 136119**  
(<http://www.nitkkr.ac.in>)

## Course Details

The main objective of this short-term course is to provide a forum in which the participants obtain information about recent advances in optimization techniques. It also highlights successful applications of optimization in various areas. It comprises of sessions for the participants to introduce them to a number of modern optimization methodologies and their application/case studies from a wide variety of real world interdisciplinary engineering problems. Owing to the interdisciplinary nature of this course, participants across the disciplines will be able to attend, appreciate and augment their knowledge to keep with the emerging advanced techniques. The course intends to focus on advances in the following domains, but is not limited to:

- Optimization Techniques –introduction
- Recent Meta-heuristics - Spider Monkey Optimization
- Bat algorithm
- Cuckoo search optimization
- Genetic Algorithm (GA), Swarm Intelligence, Ant Colony Optimization (ACO)
- Teaching-Learning Based Optimization (TLBO) algorithm, Differential Evolution (DE)
- Neural network based and fuzzy based optimization.
- Guidelines on publishing research papers- reviewers perspective, plagiarism checking
- Hands-on training using MATLAB and other Software Tools Python, Java etc.

## Resource Persons

Distinguished and Learned persons from institutes of repute including IITs, NITs and experts from related industries will be the resource persons for the course- AOTEA-18.

## Target Participants

The proposed course is designed and intended for engineers, faculty members of engineering colleges, graduate students and research scholars working in the various engineering domains.

## Registration Fees

Academic Faculty	: 3000.00 INR
Students*	: 2500.00 INR
Industry Participants	: 5000.00 INR

Interested participants should submit the complete application form in a prescribed format along with the registration fee in the form of demand draft in favor of “**Director, NIT Kurukshetra**” payable at Kurukshetra.

\*Student (UG/PG/PhD) participants need to submit scanned copy of a valid proof/ID along with the registration form.

## General Information

Participants will not be paid any TA/DA. Accommodation and travelling expenses are to be borne by participants or their respective institutes. However, accommodation can be arranged in hostel/guest house on nominal payment basis subject to the availability. The organizers will provide the meals and refreshment during the course. Limited numbers of seats are available; therefore, participants will be selected on first-come-first-serve basis. The registration form complete in all respects, accompanied by demand draft of requisite amount should reach on or before **Jan03, 2018**.

## Registration form should be sent to:

Head, Department of Computer Engineering  
National Institute of Technology, Kurukshetra-136119  
Haryana, India

**Soft copy via email:** [ritu.59@nitkkr.ac.in](mailto:ritu.59@nitkkr.ac.in)

## REGISTRATION FORM

### Short Term Course On

### Advanced Optimization Techniques for Engineering Applications (AOTEA-18) (13.01.2018 – 17.01.2018)

Computer Engineering Department  
NIT Kurukshetra – 136119

1. Name (Mr/Ms) \_\_\_\_\_

2. Designation and Official address  
\_\_\_\_\_

3. Email \_\_\_\_\_

4. Phone \_\_\_\_\_ (O) \_\_\_\_\_ (R)

5. Educational Qualification and Specialization  
\_\_\_\_\_  
\_\_\_\_\_

6. Professional Experience \_\_\_\_\_

7. Lodging & Boarding required (Yes/No) \_\_\_\_\_

### Payment Details:

8. Demand Draft No. \_\_\_\_\_ Amount: \_\_\_\_\_

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

Signature of the Applicant (with date)

Signature of Head of Dept./Instt. (with seal)