



Short Term Course  
on  
**Recent Advances in Optimization Techniques for Engineering Applications (RAOTE-2024)**  
**March 02-06, 2024**

Organized by:  
Department of Electronics and Communication Engineering  
National Institute of Technology, Kurukshetra-136119

**Patron:**

Prof. B.V. Ramana Reddy  
Director

**Co-Patrons:**

Prof. Brahmjit Singh  
Head, SCoE

Prof. Karan Sharma  
Head, ECED

**Convener:**

Dr. Poonam Jindal

**Coordinators:**

Dr. Karamdeep Singh  
Dr. Hemant Sharma

**Important Dates:**

Course Dates:  
02<sup>nd</sup>-06<sup>th</sup> March 2024  
Last Date for Registration:  
25<sup>th</sup> February, 2024  
Notification of Selection:  
27<sup>th</sup> February, 2024

**Registration form along with course fee (SBI collect receipt) should be uploaded via link:**

<https://forms.gle/5PHQk3gMkE8vBJZ88>

**Email us at:**

stc.ece.nitkkr@gmail.com

**For any queries, you may contact us:**

Karamdeep Singh: 9915037810  
Hemant Sharma: 9462740103

**About the course:**

The main objective of 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 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 –Ant-Lion Optimization
- Genetic Algorithm (GA), Swarm Intelligence, Ant Colony Optimization (ACO)
- Neural Network and Fuzzy based Optimization.
- AI Enabled Learning based Optimization Techniques
- Guidelines on Publishing Research Papers- Reviewers Perspective, Plagiarism Checking
- Hands-on Training using MATLAB and other Software Tools Python, Java etc.

**Target audience:**

- Faculty of engineering colleges/institutions
- Graduate students pursuing research in related areas
- Industry professionals/personnel/scientists working in public/private/Govt. organizations

**#Mode of STC:** STC: online mode.

**Registration fee:** Academic Faculty: Rs. 500, Students: Rs. 250, Industry/ R&D: Rs. 3000. The registration form complete in all respect, accompanied by SBI collect receipt of requisite amount should reach the course coordinators (<https://forms.gle/5PHQk3gMkE8vBJZ88>) latest by 25<sup>th</sup> February 2024.

For more details and registration information, visit the website  
[www.nitkkr.ac.in](http://www.nitkkr.ac.in)

**Short Term Course (Online mode)**  
**on**  
**Recent Advances in Optimization Techniques for Engineering**  
**Applications (RAOTEA-2024) March 02-06, 2024**

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

Name (Block Letters):M/F.....

Designation: .....

Institution/Organization:.....

.....

Experience:.....

EducationalQualifications: (Degree):.....Specialization:.....

Mailing address:.....

.....

Telephone:.....

Email:.....

Registration fee Details:

**The Registration fee can be paid online through SBI Collect. The scanned copy of the SBI-Collect receipt along with filled registration form has to be uploaded via link: <https://forms.gle/5PHQk3gMkE8vBJZ88>**

Transaction ID/ Reference ID.....Amount.....

Date of Payment.....

Date:

Signature

Place:

# How to Apply

Interested candidates can apply online by clicking the link:  
<https://forms.gle/5PHQk3gMkE8vBJZ88>

Participant's details need to be filled in and payment details be uploaded by using above link in Google Forms on or before 25<sup>th</sup> February, 2024.

**Registration Deadline:** 25<sup>th</sup> February, 2024.

**Note:** The participants need to upload (i) Proof of payment (receipt of SBI collect payment) and (ii) Signed copy of registration form by 25<sup>th</sup> February, 2024.

## Payment Procedure

The Registration fee can be paid online through **SBI Collect**. The scanned copy of the SBI-Collect receipt along with filled registration form has to be uploaded via link:  
<https://forms.gle/5PHQk3gMkE8vBJZ88>

### ONLINE Fee Payment Through SBI Collect

**Step 1:** <https://www.onlinesbi.sbi/sbicollect/icollecthome.htm>

**Step 2:** Select **Educational Institutions**.

**Step 3:** Select State **Haryana** and search for **DIRECTOR NIT KURUKSHETRA** in search bar (in left side). Then Select **DIRECTOR NIT KURUKSHETRA** option at the bottom

**Step 4:** Select Payment Category (**RAOTE A-2024**),

**Step 5:** Proceed (Fill the requested details & Submit) and take the print out.

## Step 1: <https://www.onlinesbi.sbi/sbicollect/icollecthome.htm>

The screenshot shows the State Bank Collect website interface. At the top, there are six payment categories, each with a yellow checkmark icon:

- Payments for Services to Corporates, Government and Public Sector Undertakings
- Donations to charitable & religious institutions
- Local taxes like water tax, house tax, property tax
- Payment of fees to educational institutions, hospitals and municipal corporations
- All Payments related to merchants, industry and commercial services
- Pay using Netbanking/Debit/Credit Prepaid Cards, UPI

Below the categories is a search bar with the placeholder text: "Search by institution / organisation name (Enter minimum 4 characters)".

The "Select Category" section displays eight icons with their corresponding labels:

- Educational Institutions (highlighted with a red circle)
- Religious/Charitable Institutions
- Municipal Corporations
- Govt Departments
- Healthcare Institutions
- PSU-Public Sector Undertaking
- Recruitment
- Active Windows Private Merchant (with a message: "Go to Settings to activate Windows.")

The Windows taskbar at the bottom shows the search bar, task icons, system tray (46% battery, 16°C Haze), and the date/time (19:49, 10-02-2024).

## Step 2: Select Educational Institutions.

This screenshot is identical to the one in Step 1, but with a red circle drawn around the "Educational Institutions" category icon in the "Select Category" section.

**Step 3:** Select State **Haryana** and search for **DIRECTOR NIT KURUKSHETRA** in search bar (in left side). Then Select **DIRECTOR NIT KURUKSHETRA** option at the bottom

Payment Progress

Select Payee

Category: Educational Institutions

Director NIT Kurukshetra

Filter by State: Haryana

Name of Educational Institutions	State
<b>DIRECTOR NIT KURUKSHETRA</b>	Haryana

Showing 1 to 1 of 1 entries (filtered from 7,012 total entries)

Windows taskbar: 16°C Haze, 19:55, 10-02-2024

**Step 4:** Select Payment Category (**RAOTE A-2024**).

Payment Progress

Select Payee

Enter Payment Details

Verify Payment Details

Complete Payment

Print Receipt

**DIRECTOR NIT**

HOUSE/ELECTRICITY SECURITY

LEE ADMIN BLOCK, NIT CAMPUS, KURUKSHETRA-136119

NSD 2024

**RAOTE A-2024**

BEGINNERS LEVEL COURSE ON INDUSTRIAL ROBOTICS

Payment Category: --Select any Category--

Back

Windows taskbar: 16°C Haze, 20:00, 10-02-2024

## Step 5: Proceed (Fill the requested details & Submit) and take the print out.

State Bank Collect

https://www.onlinesbi.sbi/sbicollect/payment/listcategory.htm

50%

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**DIRECTOR NIT KURUKSHETRA** | GOLDEN JUBILEE ADMIN BLOCK, NIT CAMPUS, KURUKSHETRA-136119

**Enter Payment Details**

Payment Category\*: RAOTEA 2024

NAME \*

FATHER NAME \*

DATE OF BIRTH \* [dd/mm/yyyy]

MOBILE NO. \*

E MAIL ID \*

STUDENT/RESEARCH SCHOLAR \* --Select STUDENT/RESEARCH SCHOLAR--

ACADEMIC FACULTY \* --Select ACADEMIC FACULTY--

INDUSTRY/R AND D \* --Select INDUSTRY/R AND D--

Remarks :

**Enter Your Details**

Individual  Organisation / Corporate

Name \* [dd/mm/yyyy]

Mobile No \* [dd/mm/yyyy]

Date of Birth \* [dd/mm/yyyy]

Email ID :

On successful completion of payment, you will receive the transaction reference number on this mobile number

On successful completion of payment, you will receive the transaction reference number on this mobile number

I have read and agreed to the [Terms & Conditions](#)

Activate Windows  
Go to Settings to activate Windows.

Type here to search

43%

17°C Haze

20:05  
10-02-2024