



A Short Term Course  
on  
**Artificial Intelligence and Machine Learning for Engineering Applications (AIMLEA-2024)**

**August 10 - 14, 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, ECE

**Convener:**

Dr. Poonam Jindal

**Coordinators:**

Dr. Karamdeep Singh  
Dr. Hemant Sharma

**Important Dates:**

Course Dates:

**22<sup>nd</sup> – 26<sup>th</sup> July 2024**

**10<sup>th</sup> – 14<sup>th</sup> August 2024**

Last Date for Registration:

**15<sup>th</sup> July, 2024**

**8<sup>th</sup> August 2024**

Notification of Selection:

**21<sup>st</sup> July, 2024**

**9<sup>th</sup> August 2024**

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

**<https://forms.gle/urYRjYkz3CD1ast8>**

**Email us at:**

stc.ece.nitkkr@gmail.com

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

Karamdeep Singh: 9915037810  
Hemant Sharma: 9462740103

**About the course:**

In today's rapidly evolving technological landscape, Artificial Intelligence (AI) and Machine Learning (ML) have become indispensable tools for engineers across various domains. This course offers a comprehensive exploration of AI and ML techniques specifically tailored for engineering applications. Participants will delve into the fundamental principles, practical methodologies, and real-world case studies, equipping them with the knowledge and skills necessary to leverage AI and ML effectively in engineering projects. This course adopts a blend of theoretical lectures and practical demonstrations using Python by experts from reputed institutes like IITs, NITs, etc.

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 AI & ML techniques. The STC intends to focus on the following domains, but is not limited to:

- AI & ML –Introduction
- Neural Networks and Deep Learning Architectures
- Convolutional Neural Networks (CNNs)
- Recurrent Neural Networks (RNNs) for Time-Series Data
- Reinforcement Learning
- Generative Adversarial Network (GAN)
- Natural Language Processing (NLP)
- Ethics and Considerations in AI and ML Engineering
- Machine Learning in Communication/Agriculture/ Education
- Case Studies in Engineering Domains (e.g., IoT, Healthcare, etc.) & hands-on on Python

**Target audience:**

- Faculty of engineering colleges
- Graduate students/Research scholars
- Industry professionals/personnel/scientists working in public/private/Govt. organizations

**#Mode of STC:** STC will be conducted in **ONLINE** mode.

**Registration fee:** Academic Faculty: Rs. 800, Students/Research Scholars: Rs. 500, Industry/ R&D: Rs. 2000. The registration form complete in all respect, accompanied by SBI collect receipt of requisite amount should reach the course coordinators (<https://forms.gle/urYRjYkz3CD1ast8>) latest by 8<sup>th</sup> August 2024.

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

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Artificial Intelligence and Machine Learning for Engineering Applications  
(AIMLEA-2024)  
August 10 - 14, 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/urYRJtYkz3CD1ast8>**

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/urYRJtYkz3CD1ast8>

Participants details need to be filled and payment details be uploaded by using above link in Google Forms on or before 8<sup>th</sup> August, 2024.

**Registration Deadline:** 8<sup>th</sup> August, 2024.

**Note:** The participants need to upload (i) Proof of payment (receipt of SBI collect payment) and (ii) Signed copy of registration form by 8<sup>th</sup> August, 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/urYRJtYkz3CD1ast8>

### 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 (**AIMLEA-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 several payment categories listed with checkmarks: 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; and Pay using Netbanking/Debit/Credit Prepaid Cards, UPI. Below these categories is a search bar with the placeholder text "Search by institution / organisation name (Enter minimum 4 characters)". Underneath the search bar is a "Select Category" section with eight icons representing different institution types: Educational Institutions, Religious/Charitable Institutions, Municipal Corporations, Govt Departments, Healthcare Institutions, PSU-Public Sector Undertaking, Recruitment, and Private Merchant. The Windows taskbar at the bottom shows the search bar, task icons, 46% battery, 16°C Haze, and the date 10-02-2024.

## Step 2: Select Educational Institutions.

This screenshot is identical to the one above, showing the State Bank Collect website. The key difference is that the "Educational Institutions" category icon and its label are circled in red, indicating the selection step. The rest of the interface, including the search bar and other categories, remains the same. The Windows taskbar at the bottom shows the search bar, task icons, 46% battery, 16°C Haze, and the date 10-02-2024.

**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

The screenshot shows the 'Payment Progress' flow with five steps: Select Payee, Enter Payment Details, Verify Payment Details, Complete Payment, and Print Receipt. The 'Select Payee' step is active. The search bar contains 'Director NIT Kurukshetra' and the 'Filter by State' dropdown is set to 'Haryana'. The search results table shows 'DIRECTOR NIT KURUKSHETRA' as the only entry for 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)

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

The screenshot shows the 'Payment Progress' flow with five steps: Select Payee, Enter Payment Details, Verify Payment Details, Complete Payment, and Print Receipt. The 'Enter Payment Details' step is active. The 'Payment Category' dropdown menu is open, and 'AIMLEA-2024' is selected.

Payment Category*
TICS 2024
AAE 2024
<b>AIMLEA-2024</b>
PROGRAM ON INDUSTRIAL ROBOTICS (60 Hrs)
PROGRAM ON SIMCENTER SYSTEM SIMULATION (60 Hrs)
--Select any Category--

## 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%

Getting Started UGC NET Solved Ques... Download CBSE UGC ... Weather Chennai | For... New Tab Faculty Recruitment 2... ENGINEERING Archive... Latest Teaching and Fa...

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

**Enter Payment Details**

Payment Category:

NAME \*

FATHER NAME \*

DATE OF BIRTH \*

MIDRA F No \*

E MAIL ID \*

STUDENT/RESEARCH SCHOLAR \*

ACADEMIC FACULTY \*

INDUSTRY/R AND D \*

Remarks:

**Enter Your Details**

Individual  Organisation / Corporate

Name \*

Mobile No \*

Date of Birth \*

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