NATIONAL INSTITUTE OF TECHNOLOGY KURUKSHETRA

NIT Kurukshetra, formerly known as Regional Engineering College, Kurukshetra, was founded in 1963. It was conferred 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. The 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.

ELECTRICAL ENGINEERING DEPARTMENT (EED), NIT KURUKSHETRA

The Department offers B.Tech, M.Tech, and Ph.D. Degrees Programmes. The B.Tech. programme in Electrical Engineering provides several elective courses. The department has three M.Tech Programmes with specialization in Control Systems, Power Systems, Power Electronics and Drives, and offers Ph.D. Programme in different areas evolving innovations and developments in all disciplines of Electrical Engineering. Of the thirty regular faculty members, each specialization has about ten members.

COURSE OBJECTIVES

The rapid advancement of deep learning is revolutionizing the field of engineering by enabling intelligent decision-making, predictive analysis, and automation from complex datasets. Emerging technologies such as transformer models, explainable artificial intelligence (XAI), edge AI, digital twins, and generative AI are reshaping the design, operation, and optimization of modern engineering systems. Their applications span smart manufacturing, predictive maintenance, fault diagnosis, autonomous systems, healthcare technologies, and sustainable energy solutions. Familiarity with these emerging trends empowers engineers, researchers, and academicians to address real-world challenges.

COURSE CONTENTS

The course aims to address the following issues related to the Deep Learning Trends in Engineering, but is not limited to them.

1. Evolution of Artificial Intelligence: From Conventional Machine Learning to Deep Learning
2. Deep Learning Architectures: CNNs, RNNs, LSTMs, GRUs, and Transformer Models
3. Data-Driven Modeling, Control, and Fault Diagnosis using Deep Learning
4. Deep Learning for Renewable Energy Systems, Electric Vehicles, and Smart Grids
5. Deep Learning for IoT and Cyber-Physical Systems
6. Generative AI, Large Language Models (LLMs), Explainable AI (XAI), and Future Trends in Engineering
7. Application/Implementation of Deep Learning methods for solving various engineering problems

RESOURCE PERSONS

Experts from the industry/ R&D/ IITs/ NITs/ Central/ State/ Reputed institutions.

WHO SHOULD 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.

It is an interdisciplinary course; participants from the following backgrounds, such as Electrical, Electronics, Instrumentation, Computer Science, Mechanical, Chemical Engineering, and allied areas, are encouraged to attend.

REGISTRATION FEE

Category of Registrations#	Registration fee*
Students (UG, PG, PhD scholars)	₹300/-
Faculty	₹500/-
Industry/ R&D Personnel	₹1000/-

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

\# **Participants must have valid ID proof of student/ employee from the associated organization.**

ONLINE FEE PAYMENT

The registration fee is to be paid in advance through the following steps:

1. Visit the SB Collect website: **https://sbcollect.sbi.bank.in/sbicollect/icollecthome.htm**
2. Select Category: **Educational Institutions**
3. Choose Educational Institution: **DIRECTOR NIT KURUKSHETRA**
4. Select Payment Category: **DLTE-2026**
5. Select the appropriate Registration Category (Student/Faculty, etc.) and corresponding fee, and select ₹0 for the other category.
6. Complete the payment and save the SB Collect e-Receipt for future reference.
7. The e-Receipt must be uploaded while filling out the registration form.

REGISTRATION FORM

After successful payment of the Registration Fee, the candidates have to fill out the following Registration Form (Google link):

https://forms.gle/fWWJukho3GrdPtJv6

The Registration form must be submitted before the last date of Registration **July 30, 2026 till 5 PM**.

CERTIFICATE

After successful completion of the STC, Participants will be provided with e-certificates (soft copy only) without any registration kit.

ORGANIZING COMMITTEE

PATRON

Prof. Brahmjit Singh
Director, NIT Kurukshetra

CO-PATRON

Prof. Mayank Dave
Dean (FW)

COURSE CONVENOR

Prof. J.S. Lather
Head, EED, NIT Kurukshetra

COURSE COORDINATORS

Dr. Sathans,
Professor, EED, NIT Kurukshetra
Dr. Bhanu Pratap,
Assistt. Prof., EED, NIT Kurukshetra
Dr. Rajesh Kumar,
Assistt. Prof., EED, NIT Kurukshetra

One-Week
Short Term Course
On

Deep Learning Trends in Engineering

(DLTE-2026)
during
July 31 - August 4, 2026
(Online mode only)

Organized by

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

IMPORTANT DATES

Last date of Registration: July 30, 2026 (5 PM)
Date of Acceptance: July 30, 2026 (at 9 PM)

CORRESPONDENCE

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