

KURUKSHETRA

Kurukshetra, which has religious and historical significance, is referred to as DHARMA-KSHETRA. The Mahabharata battle took place here, and Lord Shree Krishna taught the "KARMA" doctrine found in the sacred text known as the "Shrimad Bhagwad Gita." It is one of the most important pilgrimage sites, drawing followers year-round. Kurukshetra has good rail, air (Delhi 160 km and Chandigarh 80 km), and road (NH1, connecting Delhi-Chandigarh-Amritsar-Jammu) connections. The Pipli Bus stop on NH-44 is approximately 11 kilometers from the NIT Kurukshetra campus, while the Kurukshetra train station is around 6 km away.

NATIONAL INSTITUTE OF TECHNOLOGY KURUKSHETRA

Established in 1963, NIT Kurukshetra was earlier known as Regional Engineering College, Kurukshetra. On June 26, 2002, it was granted NIT status as a Deemed University. With a yearly enrollment of over 1500 students, the Institute provides several courses in B.Tech., M.Tech., MBA and MCA, and Ph.D. disciplines. Additionally, the institute offers top-notch facilities for cutting-edge research in the rapidly developing fields of science, Technology, and Engineering.

DEPARTMENT of ELECTRICAL ENGINEERING, NIT KURUKSHETRA

The Department of Electrical Engineering offers courses such as B. Tech, M. Tech, and Ph.D. The B. Tech program is run with several elective courses. The department has three M. Tech courses with specialization in Control Systems, Power Systems and Power Electronics and Drives, and offers Ph.D. in different areas, evolving innovations and developments in all disciplines of Electrical Engineering. Recently, an Advanced Control Systems Lab & Drone technologies lab with modern equipment has been established. The significant research areas are Robust Control, Adaptive

control, nonlinear systems, Instrumentation, Signal Processing, Reliability, System Engineering & Machine learning, etc.

RESOURCE PERSONS

- Experts may be invited from Industry/R&D organizations/foreign universities/institutes.
- Faculty members from IITs/NITs/IIITs/Central & State Universities.

ORGANIZING COMMITTEE

PATRON

Prof. (Dr.) Prof. Brahmjit Singh,
Director, NIT Kurukshetra

Co-PATRON

Dr. J. S. Lather
Professor and Head,
Department of EED, NIT Kurukshetra

COURSE CONVENOR

Dr. Yash Pal
Professor,
Department of EED, NIT Kurukshetra

COURSE COORDINATORS

Dr. Anil Kumar Dahiya,
Associate Professor
Dr. Shashi Bhushan Singh
Dr. Rajesh Kumar,
Assistant Professor,
Department of EED, NIT Kurukshetra

IMPORTANT DATES

- **Last date for Registration: 1.8.2026**
- **Notification of Selection (through website or email): 5.8.2026**



***Self-financed
One-week
Short Term Course
On***

**Soft Computing & Optimization
in Renewable Energy
(SCORE-2026)
(Online mode only)
(17th-21th August 2026)**



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

COURSE OBJECTIVES

The objectives of this **Self-financed One-week Short Term Course (STC) on “Soft Computing & Optimization in Renewable Energy”** are to provide participants with fundamental knowledge and exposure to soft computing techniques such as artificial neural networks, fuzzy logic, machine learning, hybrid intelligent systems, and optimization methods including genetic algorithms, particle swarm optimization (PSO), and other evolutionary algorithms. These techniques provide effective tools for solving complex, nonlinear, and uncertain problems in renewable energy systems. The course aims to familiarize faculty members, researchers, and students with intelligent approaches for modeling, control, forecasting, energy management, and performance optimization of solar, wind, hybrid, and smart energy systems. It also promotes research and innovation toward developing efficient, reliable, and sustainable energy solutions.

COURSE CONTENTS

The course aims to address the following topics related to soft computing, optimization, and their applications in renewable energy systems, but is not limited to them:

- Introduction to Soft Computing and Optimization Techniques.
- Soft Computing-Based Modeling, Control, and Forecasting of Renewable Energy Systems.
- Artificial Neural Networks (ANN), Fuzzy Logic, Machine Learning, and Hybrid Intelligent Models.
- Evolutionary and Swarm Intelligence Optimization Techniques.
- AI-Driven Energy Management, Smart Grids, and Electric Vehicle Applications.
- Case Studies on Renewable Energy System Design, Optimization, and Performance Enhancement.

WHO SHOULD ATTEND?

Faculty members/ research scholars/ PG 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: Electrical, Electronics, Instrumentation, Computers, and AI/ML Engineering are encouraged to attend.

REGISTRATION FEE (Through SBI collect)

Participant's Category	Registration Fee*
UG/PG Students/Research Scholars	300/-
Faculty	500/-
Industry/ R&D	1000/-

* **Registration fee is non-refundable. Registration fee includes course e-certificate. Selection of the participants will be on a first-come-first-served basis.**



Registration Process (Mandatory)

Registration fee is to be paid through SBI Collect. The steps are as follows:

1. <https://www.onlinesbi.sbi/sbicollect/>
2. Under “Select categories” select “Educational Institutions”.
3. Write in search box: **DIRECTOR NIT KURUKSHETRA**

4. Under payment category select “SCORE 2026”.
5. Select your “Participant category” and select the corresponding registration fee amount (and then for remaining categories select Rs 0) and complete the remaining steps.
6. Please write the short name of STC as **SCORE 2026** in **remarks** during online SBI Collect payment and save a copy of payment receipt.

Google form to be filled by participants (Mandatory)

The candidates/participants are required to fill the following Google form:

<https://forms.gle/gXXKC6L5BYVq1ej67>

In the above Google form, basic details related to participants, transactions details are to be filled and the copy of registration fee receipt. The above Google form (complete in all aspects) needs to be submitted online through above Google form by **1st August 2026**

CORRESPONDENCE

Address: SCORE-2026, Electrical Engineering Department, NIT Kurukshetra – 136119, Haryana, India

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