



राष्ट्रीय प्रौद्योगिकी संस्थान दिल्ली

**NATIONAL INSTITUTE OF TECHNOLOGY DELHI**

(शिक्षा मंत्रालय, भारत सरकार के अधीन एक स्वायत्त संस्थान)

**ONE WEEK SHORT TERM TRAINING PROGRAMME**

**ON**

**“Hybrid Electric Vehicle Evolution in the 21<sup>st</sup>  
Century: Towards Green and Sustainable  
Mobility”**

**2<sup>nd</sup> – 6<sup>th</sup> February 2026.**

**(Hybrid Mode)**



**Organized by**

**Department of Electrical Engineering**

**National Institute of Technology Delhi**

An autonomous Institute under the aegis of Ministry of Education (Shiksha Mantralaya), Govt. of India

Plot No. FA7, Zone P1, GT Karnal Road, Delhi-110036, INDIA

दूरभाष/Tele: +9111-33861000, 1001, 1005 फैक्स/ Fax: +9111-27787503,

वेबसाइट/Website: [www.nitdelhi.ac.in](http://www.nitdelhi.ac.in)

## STEERING COMMITTEE

### CHIEF PATRONS

**Prof. (Dr.) Ajay K Sharma,**  
Director, NIT Delhi

### CONVENOR (s)

**Dr. Tirupathiraju Kannumuri**  
HoD, Electrical Engineering Department

### COORDINATOR (s)

**Prof. (Dr.) Obbu Chandra Sekhar, Professor**  
Electrical Engineering Department,  
Mobile No.: +91 9440343273  
E-mail: obbuchandra@nitdelhi.ac.in

**Dr. Devasuth Govind, Assistant Professor**  
Electrical Engineering Department,  
Mobile No.: +91 9765395531  
E-mail: dgovind@nitdelhi.ac.in

### ORGANIZING COMMITTEE

**Prof. (Dr.) Ujjwal Kumar Kalla, EED, NIT Delhi.**

**Dr. Anmol Ratna Saxena, EED, NIT Delhi.**

**Dr. Pankaj Mukhija, EED, NIT Delhi.**

**Dr. Amit Kumar Singh, EED, NIT Delhi.**

**Dr. Manoj Kumawat, EED, NIT Delhi.**

**Dr. Sachin Singh, EED, NIT Delhi.**

**Dr. Shubham Kumar Singh, EED, NIT Delhi.**

## REGISTRATION DETAILS

Register through the following link  
<https://forms.gle/bjLnE9tF1qRY4Yo7A>

Last date of registration:  
10/01/2026

*The registration fee for the course:*

### Registration Fee:

UG/PG Student	- Rs. 300 /-
PhD Student/Research Scholar	- Rs. 500 /-
Faculty/Academia/R&D Labs	- Rs. 600 /-
Industry Personnel	- Rs. 800 /-

*Deposit the fee in following account:*

**Account Holder's Name: M/S. NATIONAL  
INSTITUTE OF TECHNOLOGY DELHI**

**Account Number: 092901001915**

**IFSC Code: ICIC0004610**

**Bank Name & Branch: ICICI Bank, NIT Delhi,**

**Narela Subcity**

**No TA / DA will be provided to participants**

**Scan to Pay**



## ABOUT THE INSTITUTE

An autonomous Institute that functions under the aegis of the Ministry of Education, Govt. of India. It aims to provide instructions and research facilities in various disciplines of Engineering, Science and Technology for advanced learning and dissemination of knowledge. Currently, the institute offers B.Tech. programs in Computer Science and Engineering, Electronics and Communication Engineering, Electrical Engineering, Civil Engineering, Mechanical Engineering and VLSI Design. The institute also offers M.Tech., Ph.D., and Post-doctoral programs. NIT Delhi has been ranked 65 by NIRF.

## ABOUT ELECTRICAL ENGG. DEPARTMENT

The Electrical Engineering (EE) Department is a blend of teaching and research activities pertaining to advanced fields of engineering. The department is currently offering courses at both the UG and PG level with an intake of 60 and 15 respectively. The specialization of PG course is Power Electronics & Drives. The department also offers Ph.D. program in various specialization of Electrical Engineering and allied areas. The department is equipped with state-of-the-art facilities to carry out research work at all levels. The research focus of the department is in the area of power electronics, renewable energy systems, control/time delay systems, pattern recognition, image processing etc. The department also actively involved in multi-disciplinary research activities. The department currently has following laboratories, equipped with latest equipment and software platforms, to impart state-of-the-art technical knowledge. The department aims to setup new laboratories such as Green Energy Technologies, Digital Control & FPGA Design, Biometric etc.

## TARGET PARTICIPANTS

Faculty members, researchers, professionals, technocrats and government officers from Electrical Engineering.

***For any queries, Please Contact***

**Dr. Devasuth Govind, Assistant Professor,  
Electrical Engineering Department, NIT Delhi**

**+91 9765395531,**

***E-mail: dgovind@nitdelhi.ac.in***

## ABOUT THE STTP

The STTP on Emerging Research Areas in Electrical Engineering aims to bring together community of Electrical Engineers, Scientists and Researchers in a quest for technologically appropriate, socially acceptable and economically viable solutions for the challenging requirements in the field of Electrical Engineering.

The main objective of the course is to enable the participants to the state-of-art technology in Hybrid Electric Vehicle Evolution in the 21<sup>st</sup> Century: Towards Green and Sustainable Mobility further enabling them to take up challenging assignment in future and spread the learning to the peers and creating professional environment. This course will enrich participants with necessary inputs in all areas, starting from fundamentals and research areas. To shape up teaching learning practices and groom the faculty members about effective content delivery, Electrical Engineering Department is organizing short term training program.

### Objectives of this STTP are:

- ❖ To provide participants with skills, knowledge, challenges, and future research areas of hybrid electric vehicle (HEV).
- ❖ To make participants aware of hybrid electric vehicle evolution in the 21st Century: towards green and sustainable mobility.
- ❖ To achieve net zero target (Low carbon emission EV prone)
- ❖ To make participants aware of key enabling converter topologies for hybrid electric vehicle.
- ❖ To make participants aware of converter design: modeling, simulation and hardware.

### Expected Outcomes:

On completion of the course, participants will be able to:

- ❖ Have a good understanding of Electric Vehicle used in electrical system and the use of power electronic devices.
- ❖ A comprehensive overview of HEV evolution, highlighting milestones and trends in sustainable transportation.
- ❖ A comparative analysis of HEVs vs. conventional internal combustion engine (ICE) vehicles in terms of fuel efficiency, emissions, and lifecycle cost.
- ❖ Identification of key challenges and identification best choice of EV motor among the existing motor like BLDC, PMSM, SRM etc.

## RESOURCE PERSONS

- ❖ Prof. (Dr.) H. M. Suryawanshi, Director, NIT Hamirpur
- ❖ Prof. (Dr.) K. Siva Kumar, Professor, IIT Hyderanad.
- ❖ Prof. (Dr.) Narasimharaju B. L, Professor, NIT Warangal.
- ❖ Dr. Srinivas B. Karank, Associate Professor, IIT Bhuvaneshwar
- ❖ Dr. G Siva Kumar, Associate Professor, NIT Warangal.
- ❖ Dr. Ritesh Kumar Keshri, Associate Professor, NIT Nagpur
- ❖ Dr. Man Mohan Garg, Assistant Professor, NIT Jaipur.
- ❖ Dr. Prashant Surana, Assistant Professor, IIT Roorkee
- ❖ Dr. Dipanshu Naware, Assistant Professor, NIT Trichy.
- ❖ Dr. Pratik P. Nachankar, Zoho Business Services LLP, Nagpur
- ❖ Dr. Raghavendra Naik, Assistant Professor, NIT Jamshedpur.
- ❖ Dr. Jayaram Nakka, Assistant Professor, NIT Andhra Pradesh
- ❖ Prof. (Dr.) Amarendra Matsa, Central University of Karnataka
- ❖ Dr. Suresh Lakhimsetty, Assistant Professor, SVNIT Surat
- ❖ Dr. Hareesh Myneni, Assistant Professor, NIT Srinagar
- ❖ Dr. Bharathi, Assistant Professor, YFSR, Vadlamari

## IMPORTANT DATE

Last date of Registration along with required registration fees – 10<sup>th</sup> January, 2026. Participants will be notified via email.