About the Institute

Motilal Nehru National Institute of Technology (MNNIT) Allahabad, established in 1961 as a Regional Engineering College, became an NIT and Deemed University in 2002, and was declared an Institute of National Importance in 2007. Initially affiliated with the University of Allahabad, MNNIT has grown into a premier institute for technical education. It offers postgraduate programs since 1966 and started its MBA program in 1996. The institute is recognized under the Quality Improvement Programme for M.Tech. and Ph.D. It has participated in major national initiatives like the Indo-UK REC Project and World Bank-funded TEQIP to enhance education quality and innovation.

About the Department

The Electrical Engineering Department (EED) came into existence in the year 1961. With a modest beginning of introducing four year BE degree course in 1961, a post graduate programme in Electrical Machine / Power System / Control System was introduced in the year 1970-71. Currently, EED offers courses leading to a Bachelor of Technology in Electrical Engineering, Post Graduate and Ph.D programs in (i) Power System (ii) Control & Instrumentation (iii) Power Electronics & Drives and (iv) Cyber-Physical System. The vision of the Department is to produce globally competitive technical manpower with sound knowledge of theory and practice, with a commitment to serve the society and to foster cutting edge research in Electrical Engineering pertaining to the problems currently faced by the country and the world.

Registration Details

Registration starts	13/12/2025
Registration ends	31/12/2025

Registration fee is inclusive of GST and non-refundable:

UG/PG/PhD Students	Rs. 708
Faculty/ Industry participants	Rs. 1062

How to Register

Step 1: Pay the registration fee using the QR code or UPI ID given here:

UPI ID: 10424975574@sbi

Step 2: Register using the Google form link given below:

https://forms.gle/vibjiscExmH5hcX6A

Organizing Committee

Patron	:	Prof. Rama Shanker Verma Director, MNNIT Allahabad
Chairperson	:	Prof. Nitin Singh, Head, EED
Coordinator (s)	:	Dr. Saumendra Sarangi
	:	Dr. Vishal Kumar Gaur
Convener (s)	:	Dr. Prashant Kumar Tiwari Dr. Dipayan Guha Dr. Kapil Chauhan

Contact Us:

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One Week Workshop on

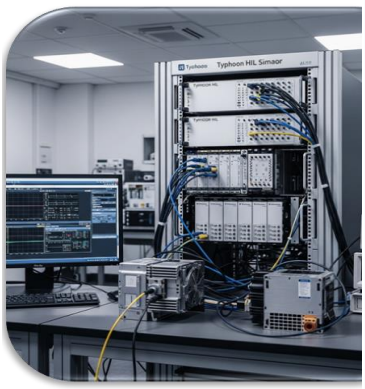
Real-Time Hardware-in-Loop Simulations using Typhoon

(RTHILS-2026)

January 05th – 09th, 2026

QUARBZ

Typhoon HIL



About the Workshop

This workshop introduces Hardware-in-the-Loop (HIL) simulation for real-time testing and validation of power systems and embedded controllers. It overcomes the limitations of offline simulations by enabling safe, cost-effective, and realistic evaluation of control and protection strategies, with applications in renewable energy, power electronics, and smart grids.

Objective of Course

- Develop high-fidelity real-time models of power system and power electronic systems.
- Perform HIL testing using the HIL TI DSP-180 interface board and TI C2000 DSP processors.
- Evaluate system behavior under dynamic and fault conditions in a safe environment.
- Enable early-stage validation and debugging without physical prototypes.
- Support R&D in microgrids, renewable energy, and electric vehicles.

Resource Persons

The workshop will feature expert lectures along with practical, hands-on HIL simulation sessions delivered by industry professionals and researchers from reputed institutions.

Supported by

This workshop is supported by DST-FIST project (ref. No.: SR/FST/ET-I/2021/794(C))

Organized by:

Department of Electrical Engineering

Motilal Nehru National Institute of Technology Allahabad