GH raisoni COLLEGE | Engineering and Management Nagpur
An Autonomous Institute, Affiliated to RTMNU, Nagpur
Accredited by NAAC with A+Grade

DEPARTMENT OF ELECTRICAL ENGINEERING

"Vidyut"

A monthly newsletter of Electrical Department for Institute Friends, Patrons, Mentors and Alumni….

VOLUME-XI ISSUE-I **NEWSLETTER** DATE: 03/08/2025

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H.O.D. EE

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IV Sem

Vision and Mission of the Department

Vision

To produce capable graduate engineers with an aptitude and quality for research and leadership.

Mission

- **To enhance career opportunities for the electrical Students through industrial exposure & promote interaction among industry, faculty and students.**
- **To inculcate sensitivity toward society and a responsibility towards environment.**
- **To achieve excellence in learning and research through continual improvement in both content and delivery of the academic programs.**
- **To provide opportunities and ensure regular Skill Up gradation of faculty, staff and students through training programs**

Faculty Development Program Conducted at GHRCEM, Nagpur

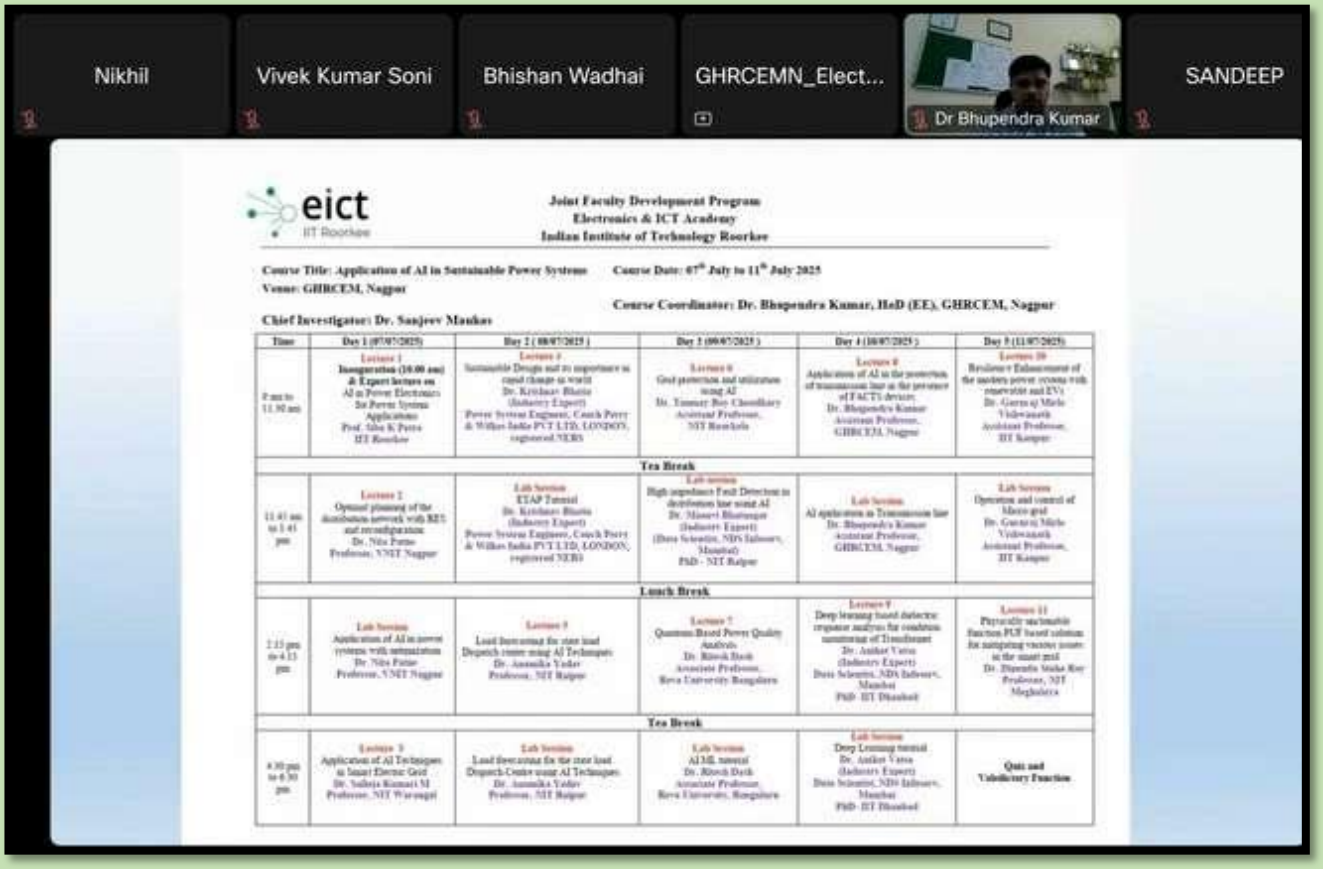
The **Department of Electrical Engineering**, **G H Raisoni College of Engineering & Management, Nagpur,** in collaboration with **E&ICT Academy, IIT Roorkee**, conducted Five days **Faculty Development Program (FDP)** on *"**Application of AI in Sustainable Power Systems**"* from **07th July to 11th July 2025 in hybrid mode . T**he aim of this FDP was to enhance the academic and research capabilities of faculty members. This Faculty Development Program covered various cutting edge technologies such as Sustainable Design and its relevance in a rapidly changing world, the application of Artificial Intelligence in transmission lines, Smart Electric Grids, load forecasting for State Load Dispatch Centers using AI, Deep Learning techniques, Microgrids and a hands-on tutorial on ETAP.

A total of 60 participants enrolled for this FDP from different esteemed institutions in India and abroad. All the participants appreciated the theory and lab sessions conducted by the experts. The Faculty Development Program included interesting sessions of 40 hours by expert speakers from premiere institutes like IITs and NITs, as well as professionals from various industries, providing a good combination of theory and practical hands on knowledge.

All the technical arrangements and program coordination are executed by Mr. Avinash S. Welankiwar and Ms. Priti Bawankule, Assistant professor, GHRCEM, Nagpur under the guidance of Dr. Bhupendra Kumar, FDP Coordinator and HoD, EE and Dr. Vivek Kapur, Director, GHRCEM, Nagpur.





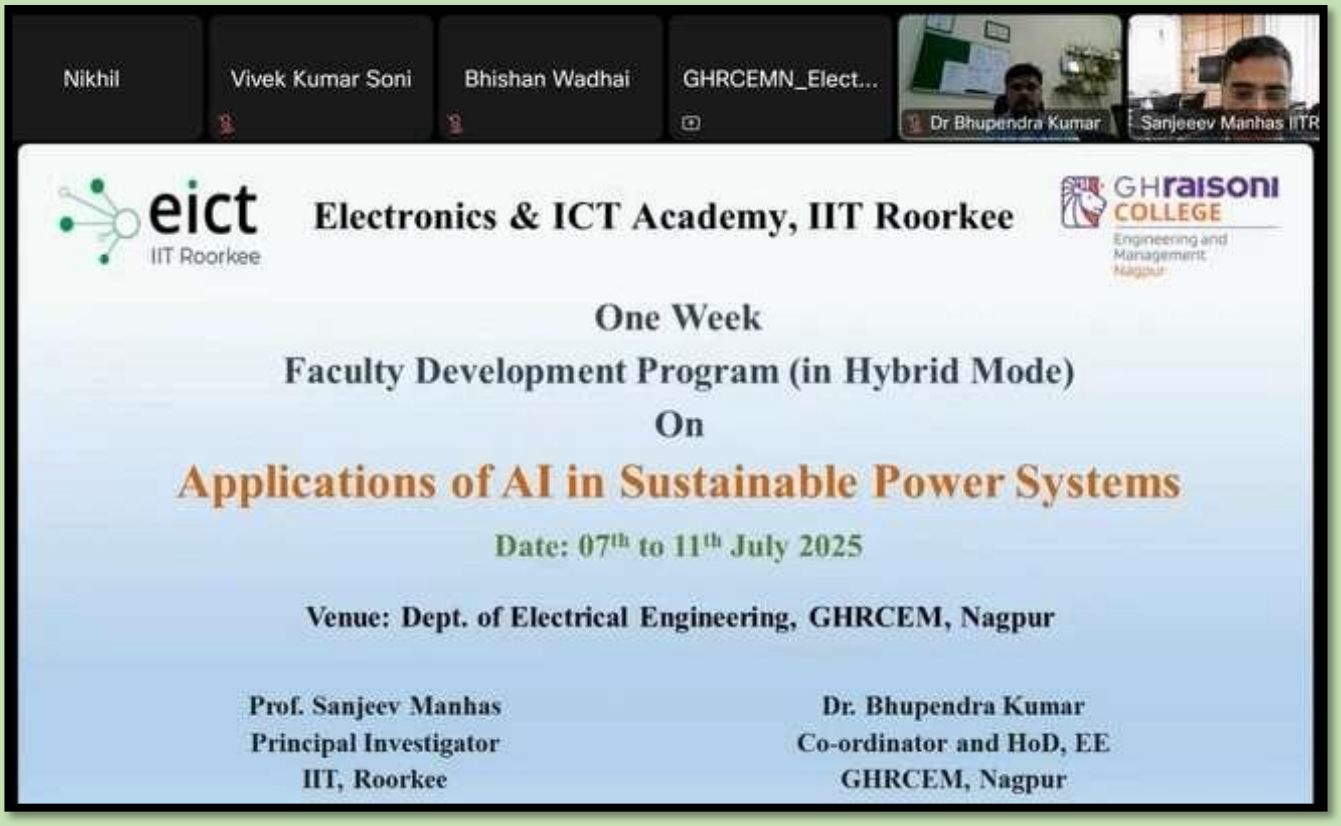


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IIT Roorkee

Joint Faculty Development Program
Electronics & ICT Academy
Indian Institute of Technology Roorkee

Course Title: Application of AI in Sustainable Power Systems **Course Date: 07th July to 11th July 2025**
Venue: GHRCEM, Nagpur
Course Coordinator: Dr. Bhupendra Kumar, HoD (EE), GHRCEM, Nagpur
Chief Investigator: Dr. Sanjeev Manhas

Time	Day 1 (07/07/2025)	Day 2 (08/07/2025)	Day 3 (09/07/2025)	Day 4 (10/07/2025)	Day 5 (11/07/2025)
9 am to 11.30 am	Lecture 1 **Inauguration (10.00 am) & Expert lecture on** AI in Power Electronics for Power System Applications Prof. Sibu K Panra IIT Roorkee	Lecture 2 Sustainable Drought and its importance in rapid change up world Dr. Krishnav Bhatia (Industry Expert) Power System Engineer, Coach Perry & Wilkes India PVT LTD, LONDON, registered NERS	Lecture 6 Grid protection and utilization using AI Dr. Tanmay Roy Choudhary Assistant Professor, NIT Rourkela	Lecture 8 Application of AI in the protection of transmission line in the presence of FACTS devices. Dr. Bhupendra Kumar Assistant Professor, GHRCEM, Nagpur	Lecture 10 Resilience Enhancement of the modern power system with renewable and EVs Dr. Garima Mishr Vishwanath Assistant Professor, IIT Kanpur
Tea Break					
11.45 am to 1.45 pm	Lecture 3 Optimal planning of the distribution network with RES and reconfiguration Dr. Nita Patne Professor, VNIT Nagpur	Lab Session ETAP Tutorial Dr. Krishnav Bhatia (Industry Expert) Power System Engineer, Coach Perry & Wilkes India PVT LTD, LONDON, registered NERS	Lab session High impedance Fault Detection in distribution line using AI Dr. Manavi Bhatnagar (Industry Expert) (Data Scientist, NDS Infoserv, Mumbai) PhD - NIT Raipur	Lab Session AI applications in Transmission line Dr. Bhupendra Kumar Assistant Professor, GHRCEM, Nagpur	Lab Session Operation and control of Micro-grid Dr. Garima Mishr Vishwanath Assistant Professor, IIT Kanpur
Lunch Break					
2.15 pm to 4.15 pm	Lab Session Application of AI in power systems with optimization Dr. Nita Patne Professor, VNIT Nagpur	Lecture 4 Load forecasting for state load Dispatch center using AI Techniques Dr. Anuradha Yadav Professor, NIT Raipur	Lecture 7 Quantum Based Power Quality analysis Dr. Ritesh Dash Associate Professor, Reva University Bangalore	Lecture 9 Deep learning based detector: sequence analysis for condition monitoring of Transformer Dr. Ankur Vatsa (Industry Expert) Data Scientist, NDS Infoserv, Mumbai PhD- IIT Dhanbad	Lecture 11 Physically unclonable function PUF based solution for mitigating various issues in the smart grid Dr. Dipanshi Sinha Roy Professor, NIT Meghalaya
Tea Break					
4.30 pm to 6.30 pm	Lecture 5 Application of AI Techniques in Smart Electric Grid Dr. Subrat Kumari M Professor, NIT Warangal	Lab Session Load forecasting for the state load Dispatch Center using AI Techniques Dr. Anuradha Yadav Professor, NIT Raipur	Lab Session AI/ML tutorial Dr. Ritesh Dash Associate Professor, Reva University, Bangalore	Lab Session Deep Learning tutorial Dr. Ankur Vatsa (Industry Expert) Data Scientist, NDS Infoserv, Mumbai PhD- IIT Dhanbad	**Quiz and Valedictory Function**



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Electronics & ICT Academy, IIT Roorkee

GHraisoni COLLEGE
Engineering and Management
Nagpur

One Week
Faculty Development Program (in Hybrid Mode)
On
Applications of AI in Sustainable Power Systems

Date: 07th to 11th July 2025

Venue: Dept. of Electrical Engineering, GHRCEM, Nagpur

Prof. Sanjeev Manhas
Principal Investigator
IIT, Roorkee

Dr. Bhupendra Kumar
Co-ordinator and HoD, EE
GHRCEM, Nagpur

Nikhil | Vivek Kumar Soni | Bhishan Wadhai | GHRCEMN_Elect... | Dr Bhupendra Kumar | SANDEEP



Preamble by Dr. Bhupendra Kumar

FDP Coordinator and HoD, EE, GHRCEM, Nagpur

Nikhil | Vivek Kumar Soni | Bhishan Wadhai | GHRCEMN_Elect... | Dr Bhupendra Kumar | SANDEEP



Prof. Sanjeev Manhas

Principal Investigator, E&ICT Academy, IIT Roorkee

EE Department student Participation in NCC Camp

The student of Electrical Engineering Department of GHRCEM, Nagpur, attended the 10-day NCC Camp held at the Officers Training Academy (OTA), Kamptee from 14/07/2025 to 23/07/2025. The camp was conducted under the guidance of Lt. Col. Ameya Kanade, Commanding Officer, and Subhedar Major Vinayak Maske, 2-MAH, ARTY Battery. During the camp, the students underwent rigorous training in leadership, drill, weapon handling, map reading, and teamwork. The participants from the department were Ms. Pranshi Warade from the 5th semester, Ms. Mahi Bhoyar, 3rd semester and Ms. Gatha Ramteke from the 3rd semester. The camp provided a valuable platform for them to enhance essential life skills such as discipline, communication, problem-solving, and leadership qualities.

The Electrical Engineering Department feels proud for the achievement of Ms. Gatha Ramteke, who was selected for the Guard of Honour, and Ms. Mahi Bhoyar, who won a prize in the extempore competition. These achievements reflect the dedication and active participation of our students in all aspects of the training and were greatly appreciated by their Ms. Priti Bawankule ,3rd sem Class Teacher.

These achievements reflect the dedication and active participation of our students in all aspects of the training. We sincerely appreciate the guidance and encouragement extended by Lt. Col. Ameya Kanade and Subhedar Major Vinayak Maske, which enabled our students to gain maximum benefit from this camp.

We hereby extend our gratefulness to Dr. Vivek Kapur, Director, GHRCEM and Dr. Bhupendra Kumar, HoD EE for their continuous guidance and support, we extend our heartfelt gratitude towards all teaching faculties, supporting staff to make this achievement.

Glimpses of Training

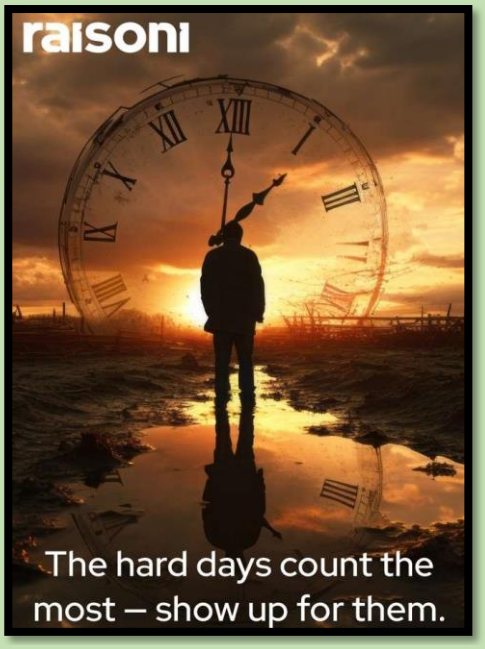











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The hard days count the most – show up for them.

Induction Program for 2nd year Students

Electrical Engineering Department has organized an "**Induction Program"** on 23/07/2025 for 2nd year students of Electrical Engineering Department, G.H. Raisoni College of Engineering and Management, Nagpur. The objectives of this event were to help students feel comfortable in their new environment, adapt to the department's customs and practices, and become familiar with its facilities and physical resources.

The program commenced with an introductory speech by **Dr. Bhupendra Kumar,** Head of the Electrical Engineering Department. In his address, he welcomed the third-semester students (48) and briefed them about the objectives of the induction program. He briefed the students about the various activities conducted in the department, including both curricular and extracurricular initiatives, and concluded his speech by motivating them to participate actively in these activities for their overall development. After that **Ms. Priti Bawankule**, Class teacher of 2nd year inform students about vision and mission of institute as well as vision and mission of department, importance of NBA Accredited department. She also discussed the various facilities and schemes available for students, such as the Honor Scheme, Minor Scheme, Grade Improvement Scheme, and the different student clubs active in the department. Additionally, she provided an overview of the activities previously conducted under these student clubs. Program concluded with questions and answer session.

We hereby extend our gratefulness to **Dr. Vivek Kapur**, **Director, GHRCEM** and **Dr**. **Bhupendra Kumar,** HoD EE for their continuous guidance and support, we extend our heartfelt gratitude towards all teaching faculties, supporting staff to make this event grand success.

Glimpses of Induction Program






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Pressure reveals
what practice built.