



Professional Development Programme
On
Recent Trends in Green Technology
For
Attainment of UN Sustainable Development Goal-2030
(2nd to 22nd July, 2022)

*Conducted under the umbrella of UNAI to accomplish the Principle of the
United Nations Academic Impact*

Organized by:
Department of Electrical Engineering
Integral University Lucknow



About the University

Integral University is situated in Lucknow, a city known for its culture, etiquette, monuments and role in the freedom struggle. Integral University has a unique culture of inclusiveness, diversity, personal and intellectual integrity and value-based education. The curriculum has a strong focus on individual growth and the development of essential tools so that its students make a mark in the corporate world and the field of technology. These are solidly supported by a highly qualified and trained team of accomplished faculty and robust academic infrastructure. It was established under the Act Number 9 of 2004 by the State Government. The University is duly approved by the University Grants Commission (UGC) under section 2(f) and 12B of the UGC Act, 1956, Medical Council of India, Pharmacy Council of India, Indian Nursing Council, Council of Architecture, Bar Council of India, Indian Association of Physiotherapists, National Council for Teacher Education, UP State Medical Faculty and Distance Education Bureau. The campus provides state-of-the-art hostel accommodation, with the capacity to host 2600 students in the hostels, and houses a 550-bedded hospital, as part of the Medical College, with state-of-the-art medical facilities and more than 200 doctors. Integral University is not only an academic institution but also a mission and a vision to make the country progressive and prosperous in all walks of life.

About the Department

The Department of Electrical Engineering at Integral University, Lucknow, established as one of the major departments of the Institute, since its inception in 2011, the Department of Electrical Engineering has been actively engaged in teaching and research in diverse fields of Electrical Engineering. With excellent faculty, the Department of Electrical Engineering offers undergraduate (B.Tech), Postgraduate (M.Tech) and Research (Ph.D.) programs. The Department has fully equipped laboratories such as Electrical Machines laboratory, Power Systems Laboratory, Control Systems laboratory, Electrical Measurements laboratory, Power Electronics & Drives Laboratory, Electrical workshop Laboratory & Electrical circuit simulation laboratory with well qualified faculty members having post graduate & doctoral degrees in Engineering.

About the Programme

Owing to the growing demand of electricity and insufficient supply the global market is looking for a sustainable alternative for replacing the conventional energy systems. Moreover, our government is looking for as well as encouraging; efficient, reliable, and affordable electrical alternatives to cut down the pressure on grid supply. This mission necessitates skilled technicians and engineers to make this venture a reality. Thus, this Program aims at addressing the basics of green technologies, battery charging via. Sustainable/renewable energy systems, batteries energy management, converters for the design of green energy systems like solar, biofuel, etc. along with analysis and control of electric vehicle, Solar, Biofuel technologies with advance soft computing techniques. The PDP acquaints the participants about the recent trends in green technology researches and its effect on the energy efficiency of the system along with the impact on environment. The PDP will cover many topics discussed by the experts in the field of green technology and its applications.

Course Objectives

To enrich the participants with

- ✓ Sustainable Energy technologies*
- ✓ Wind, and solar integration in competitive power markets*
- ✓ Demand side management*
- ✓ Energy conservation and energy management*
- ✓ Electrical engineering standards*
- ✓ Electric vehicles*
- ✓ Networking Technologies*
- ✓ Bio-energy systems*

Criteria for Course Completion

The course includes quizzes and assignments which are mandatory for all enrolled participants. Each quiz and assignment shall be of 50 grades and a Minimum of 50% marks shall be required as eligibility criteria for completing the course and receiving the certificates.

Chief-Patron

*Prof. S.W. Akhtar
Founder & Chancellor
Integral University, Lucknow*

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Integral University, Lucknow*

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- *Er Abhishek Garg, Power Grid Corporation India Limited, Gurgaon*

Registration Link: <https://forms.gle/47fgZUr3wwriWic6A>

E-certificate will be provided to all the successful participants

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