



Department of Electronics & Communication
Engineering
Organizing
Four -Weeks blended
Value Added Course
On

**“ECV-21-01 Renewable Energy
Technology & Its
Future Potential”**

Date: June 27, 2022 - July 20, 2022

Registration Link:

<https://forms.gle/f1VEmWpf6xZyja3P7>

INTEGRAL UNIVERSITY

Dasauli, Kursi Road
Lucknow



ABOUT RENEWABLE ENERGY

Renewable energy is energy derived from natural processes. There are various forms of renewable energy, deriving directly or indirectly from the sun, or from heat generated deep within the earth. They include energy generated from solar, wind, geothermal, hydropower and ocean resources, solid biomass, biogas and liquid bio-fuels. Biomass, however, is a renewable resource only if its rate of consumption does not exceed its rate of regeneration.

GOVT. AMBITION & TARGETS

The Govt. has planned to achieve a capacity of 175 GW worth of renewable energy by the end of 2022 and further to establish renewable energy capacity of 523 GW (including 73 GW from Hydro) by 2030.

OBJECTIVE

The objective of this course is to develop highly skilled and technically qualified engineers, and also give them a pathway towards becoming successful professionals and an entrepreneur.

Topics to be covered in this course are

Module-I: Renewable Energy: An Alternate To Hydrocarbon Energy Resources.

Module-II: Wind Energy

Module-III: Solar Energy

Module-IV: Solar PV System Sizing

Module-V: Hydrogen Fuel Cell

Module-VI: Entrepreneurship Opportunity & Latest Trends in Solar Cell Technology.

Four-Weeks Course shall be conducted in blended mode;

- Face to Face session (one week equivalent)-6 days using video conferencing.
- 60+hours' online active engagement content based learning, assignments and quizzes.

OUTCOME

After successfully completion of this course, students will be able to enhance their theoretical knowledge with practical understanding on Renewable energy technology.

CERTIFICATION

Completion Certificate (Soft copy) will be provided after completion of this course, with qualifying criterions.

ELIGIBILITY

Students from all the departments of Integral University, Lucknow, are eligible to join this course.

ORGANIZING COMMITTEE

Convener

- Prof. Syed Hasan Saeed, ECE, Integral University, Lucknow
- Prof. Naim. R. Kidwai, Deputy Director IQAC, Integral University, Lucknow

Organizing Secretary

- Dr. Shailendra Kumar, ECE, Integral University, Lucknow
- Dr. I. U. Khan, ECE, Integral University, Lucknow
- Mr. Mohd. Javed Khan, ECE, Integral University, Lucknow
- Mr. Saif Ahmad, ECE, Integral University, Lucknow
- Dr. Piyush Charan, ECE, Integral University, Lucknow

Resource Person

- Dr. Chandra Shekhar Azad, Ex. DGM, BSNL
- Dr. Shailendra Kumar, ECE, Integral University, Lucknow
- Mrs. T. A. Chandel, ECE, Integral University, Lucknow
- Dr. Piyush Charan, ECE, Integral University, Lucknow
- Dr. Saima Beg, ECE, Integral University, Lucknow
- Dr. Faizan Arif Khan, EE, Integral University, Lucknow
- Dr. Ahmad Faiz Minai, EE, Integral University, Lucknow
- Mr. Hamza Siddiqui, Solar Development Group, Integral University, Lucknow

Schedule

This Course shall be conducted through online mode (iLi LMS).

Course Platform : iLi-LMS
Duration : 60+ Hours/4 Weeks
Commencement of registration: 22nd June 2022
End of registration : 27th June 2022
Commencement of Course : 27th June 2022
End of the Course : 20th July 2022
Registration Link: <https://forms.gle/flVEmWpf6xZyja3P7>
Presentation: <https://www.youtube.com/channel/UCNplSzVRbBp4cQJ9LP7hYEA>

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Course Curriculum

MODULE : I

27-June-22 to 29-June-22	RENEWABLE ENERGY: An Alternate to Hydrocarbon Energy Resources.
	Quiz-1
	Assignment-1
	Discussion Forum

MODULE : II

30-June-22 to 2-July-22	WIND ENERGY
	Quiz-2
	Assignment-2
	Discussion Forum

MODULE : III

04-July-22 to 06-July-22	SOLAR ENERGY
	Quiz-3
	Assignment-3
	Discussion Forum

MODULE : IV

07-July-22 to 09-July-22	SOLAR PV SYSTEM SIZING
	Quiz-4
	Assignment-4
	Discussion Forum

MODULE : V

14-July-22 to 16-July-22	HYDROGEN FUEL CELL
	Quiz-5
	Assignment-5
	Discussion Forum

MODULE : VI

18-July-22 to 20-July-22	ENTREPRENEURSHIP OPPORTUNITY & LATEST TRENDS IN SOLAR CELL TECHNOLOGY
	Quiz-6
	Assignment-6
	Discussion Forum