

AICTE Training and Learning (ATAL) Academy



Sponsored

One Week

Faculty Development Program On

"Sustainable Energy Development: Recent Advances & Future Prospects"

12th - 17th February 2024

Organized by

**Department of Electrical Engineering
JIT, Nagpur**

In Association with



**Institute of Engineers,
Nagpur Local Centre**



DTE Code: EN4139



NAAC A+ Accredited

Samridhi Sarwajanik Charitable Trust's

**JHULELAL
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AN AUTONOMOUS INSTITUTE

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ABOUT INSTITUTE

Jhulelal Institute of Technology is governed by Samridhi Sarwajanik Charitable Trust with a noble cause of providing quality technical education to the students in Central India. JIT is an Autonomous Institution and NAAC Accredited with A+. It is a premiere technical institution established in 2008 offering six undergraduate courses in engineering disciplines, three postgraduate courses including MBA and also PhD research centre for Commerce & Management, Electronics Tele-communication Engineering and Computer Science Engineering. The college has marched towards the pinnacle of glory through its remarkable achievements and laurels in the field of engineering education of high quality and caliber. It envisages becoming an eminent institution through knowledge & research.

ABOUT NAGPUR

Nagpur city, popularly known as Orange city is a winter capital of the Maharashtra state. It is a fast-growing metropolis and third largest city of Maharashtra. Nagpur is also known as education hub in central India. It is among the important cities known for IT sector in Maharashtra. It has recently been ranked as the cleanest city and the second greenest city of India. Nagpur is also declared as "Tiger Capital of India" as it connects many tigers reserve in India to the world.

-Emphasize project-based learning and real-world applications in manufacturing.

ABOUT ELECTRICAL ENGINEERING DEPARTMENT

The Department of Electrical Engineering has been functioning since 2014. The Department offers undergraduate programme in Electrical Engineering. Primary objective of department is to impart quality technical education, training and research at the undergraduate level in various areas of Electrical Engineering with emphasis on emerging areas of solar technology, Electric vehicles, High Voltage Engineering, Electrical machines, Power system. It has well qualified and experienced faculty and state of art laboratories

OBJECTIVES

The main objectives of conducting FDP are as follows –

- ❖ To bring the faculties of different engineering, science and allied subjects onto one platform to update with the advances in the renewable energy technology and applications.
 - ❖ To aware the faculties on various aspects of Advances in Renewable Energy Technologies
 - ❖ To aware Carbon Emission Reduction mission.
- To build research, teaching and administration competence for holistic development of individuals.

COURSE OUTCOMES

- ❖ With improved knowledge base, Teaching Learning process will improve.
- ❖ Faculties can modify the syllabus with recent trends in Renewable Energy.

- ❖ Gain better understanding on how to design a project on renewable energy with computational skills.
- ❖ In large students associated with faculties get aware future advances in RES through Teaching Learning.

ABOUT FDP

Now a days we all are the witness of climate change (low summer river flows, high seasonal temperature change) everywhere, This continuous change in weather conditions primarily due to emission of green house gases (GHG) which includes nitrous oxide(N₂O), Methane (CH₄), water vapor, (CO₂) in the atmosphere. Fossil fuels like coal, petroleum and other sources additionally increase green house gases in the atmosphere. In this contest, to control adverse effect of climate change, 196 countries adopted legal binding as per Paris agreement held on 12 December 2015 and entered into force on 4 November 2016. Its goal is to limit global warming to well below 2, preferably to 1.5 degrees Celsius, compared to pre-industrial levels. To achieve carbon free atmosphere it is required to adopt bio energy as renewable energy source instead of energy from fossil fuel and adopt the way to support save earth. The optimistic forecasting through various research and practical applicability estimates that renewable energy will contribute about 30-50% of total energy demand of market by 2050. Till date good research has been done and implemented renewable energy sources with latest technology such as solar and wind. Green-hydrogen produced from renewable

energy sources poses little to no threat to the environment and increasing its production will support net zero targets. India's cumulative grid interactive or grid tied renewable energy capacity (excluding large hydro) has reached about 42 GW, of which 66% comes from wind, while solar PV contributed nearly 14.59% along with biomass and small hydro power of the renewable energy installed capacity in India.

REGISTRATION

For Faculty members from AICTE approved Institutes & Research Scholar Students

Participants can sign up and register for the program in AICTE-ATAL website

Website Link: <https://www.aicte-india.org/atal>

Registration Fees: Free

Mode of Delivery: Offline

RESOURCE PERSON

Resource persons are from IIT, IIIT, NIT, GCOE and from Industries.

IMPORTANT DATES

Last Date of Registration: **7th February 2024**

Information to the selected candidates:

8th February 2024

CERTIFICATION DETAILS

The certificates will be issued to participants having minimum 80% attendance in all sessions followed by Feedback and Test.

PATRONS

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