



Patron

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About IIIT Ranchi

Indian Institute of Information Technology Ranchi is an Institute of National Importance. IIIT Ranchi is funded by Ministry of Education (MHRD), Government of India, and HTE & SD, Government of Jharkhand along with the industry partners Central Coalfield Limited (CCL), Tata Consultancy Services (TCS) and Tata Technologies. The institute is managed by professionals from the area of academics and research, under the guidance of a Board of Governors of the Institute that has representatives of participating Industry partners, eminent academicians & researchers and representatives from Government.

Online

Faculty Development Programme

on

Green Technology for Sustainable Development

Nov. 25th – Nov. 29th
2023



INDIAN INSTITUTE OF
INFORMATION TECHNOLOGY
RANCHI



About the FDP

Energy is the driving force behind all economic activities. Consequently, the ever-increasing population and associated energy requirements to meet the increasing living standard has become a matter of great concern. In particular, the availability of suitable and sufficient energy sources, development of environmental friendly utilization technologies and the cost of energy have been extremely important factors needing immediate attention. The aim of this FDP is to impart research skills to the beginners, improve the quality of research among the existing researchers in the area of green energy and to give a brief knowledge about sustainable energy.



Course Content

- Green energy and sustainable development, regulations and policies
- Introduction to the concept of Smart City, Technologies involved in developing smart cities
- Water saving technologies, water scarcity, surface water quality and quantity
- Green Environment and conservation of natural environmental resources.
- Waste Management, global warming, climate change and natural disaster
- Recent Challenges in Renewable Energy Sources
- Smart Grid, Issues in Integration of RES with grid
- Network and Cyber Security
- Green buildings for sustainable development
- Research challenges in Solar Thermal Energy Storage
- Research challenges in use of Nanomaterials for energy applications
- Computational modeling of energy systems



Objective of FDP

The aim of this Faculty Development Program (FDP) is to provide exposure to faculty members, practicing engineers, and students to the concepts of Green Technology and Sustainable Engineering. This course begins with an overview of green energy sustainability, their futuristic technologies and emerging trends. The geographical map of India provides us tremendous potential to tap the wind energy available along the long coast line and solar energy is almost uniformly available in most of the parts of the northern India. The initiatives taken by the Ministry of New and Renewable Energy (MNRE) to achieve the optimum utilization of solar energy, which provides a huge opportunity to all the stakeholders working in this area.



Resource Person

Eminent academicians and researchers from premier institutions like IITs, NITs, IIITs, central Universities Renowned Institutes and Industry experts for proper blend of academia and industry.

Scan for Registration



Who can apply?

The faculty members, research scholars, PG scholars, participants from Engineering Institutions and Science colleges, Government and Industry

How to apply?

Interested candidates should fill out the **google form** at the earliest

<https://forms.gle/cVQUYZHw3NKnWvH5A>

Registration Fees **NIL**

Important dates:

Last date for Registration : 23 Nov. 2023
Email to participants : 24 Nov. 2023



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