

Course Content

1. Energy Market Overview
2. Energy Market Strategies with Transmission and Distribution System Constraints.
3. Energy Sector Challenges, Opportunities and Policy Framework for Evolving Renewable Energy Dominant Market
4. New Regulations for RE in Energy Sector: Comprehensive Analysis and Business Model
5. Smart Grid development in Great Britain
6. The UK Energy Systems: Evolution and current practices
7. Energy Market Design with Energy Storage (Pumped Hydro & Battery Storage)
8. Unified Pricing Mechanism in Energy Market Development: Strategic Approach
9. Electric Vehicle Charging Infrastructure: Energy Trading Linkage
10. RE & Energy Storage Real Time Monitoring and Forecasting for Secure System Operation
11. Grid Stabilization Strategies with Demand Response.
12. Smart Grid Infrastructure: An Essential Framework for Financial Sustainability of Power Sector.

The speakers would be a mix of faculty from UK universities, NPTI, IITs, NITs along with MNIT and industry experts.

Organizing Committee Patron

Prof. Udaykumar R. Yaragatti

Director, MNIT Jaipur

Prof. R K Pandey

Director General, NPTI

Conveners

Dr. Rohit Bhakar, MNIT Jaipur

Prof. Rajesh Kumar, MNIT Jaipur

Course Coordinator

Dr. Satish Sharma (EED), MNIT Jaipur

Dr. Prerna Jain (EED), MNIT Jaipur

Dr. Parul Mathuria (CEE), MNIT Jaipur

Dr. N. V. Kumar, NPTI Badarpur

Course Fee

| | |
|----------------------------|-------------|
| Participants from Industry | Rs. 18000/- |
| Participants from Academia | Rs. 3000/- |
| Students of MNIT Jaipur | Rs. 500/- |

“The registration fee will include registration kit, high tea, breakfast and working lunch”

Fee submission details, along with transaction ID, are required for online registration. Selection is on a first come- first served basis, and registration charges are non- refundable. Fee is inclusive of GST. For online RTGS/ NEFT/ IMPS payment, details are

Account Holder Name - **Registrar (ICC)
MNIT, Jaipur**

Account Number - **676801081625**

Bank Name - **ICICI Bank Ltd.**

Branch - **MNIT Branch**

IFSC code - **ICIC0006768**

Important Dates to Remember

| | |
|---------------------------|---------------|
| Last date of Registration | March 2, 2020 |
|---------------------------|---------------|

Registration can be done through online link (<http://bit.ly/2SavWtk>)

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| Confirmation of Selection by Email | March 4, 2020 |
|------------------------------------|---------------|

Boarding and Lodging

Limited accommodation on twin sharing basis is available in the MNIT Hostel Guest Rooms for outstation participants on first come first serve basis. Accommodation would be chargeable @ approximately Rs. 300/- per head.

Contact Persons

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एन पी टी आई
NPTI
प्राचीण्यं परोपवृत्तिश्च

**A One Week Short-term
Training Program on**

**Electricity Markets : Challenges with
Renewable & Storage Integration**

MARCH 12th - 16th, 2020



ORGANIZED BY

**DEPARTMENT OF ELECTRICAL ENGINEERING
and**

CENTRE FOR ENERGY & ENVIRONMENT

Malaviya National Institute of Technology, Jaipur

J.L.N. Marg, Jaipur-302 017, Rajasthan, INDIA

www.mnit.ac.in

&

NATIONAL POWER TRAINING INSTITUTE

NPTI (Northern Region) Badarpur

New Delhi

www.npti.gov.in

NPTI

National Power Training Institute (NPTI), an ISO 9001 & ISO 14001 organization under Ministry of Power, Government of India is a National Apex body for Training and Human Resources Development in Power Sector with its Corporate Office at Faridabad. NPTI has been providing its dedicated service for more than five decades. NPTI has trained over 3,20,000 power professionals in regular Programs over the last 5 decades and is the world's leading integrated power training institute. NPTI is the only institute of its kind in the world with a wide geographical spread and covering a wide gamut of academic and training programs in power sector. NPTI's committed faculty is providing quality training in the power sector, which has a cascading effect on the growth of GDP and economy of the country.

MNIT Jaipur

Malaviya National Institute of Technology Jaipur (Deemed University) is one of the premier NITs, designated with the status of "Institute of National Importance" by MHRD. The institute was established in 1963, and its campus spread over 325 acres of lush green area in the central location of Jaipur city. The institute offers undergraduate and postgraduate courses (B.Tech, M.Tech./ MBA/ M.Sc. & Ph.D.) to about 5000 students, in leading fields of engineering, technology, architecture, management & sciences. Through the internationally renowned faculty, laboratories with state-of-the-art equipment's and excellent infrastructure, the institute is actively engaged in research, consultancy and developmental activities, besides imparting regular teaching.



Department of Electrical Engineering

The Department is one of the oldest departments of the institute, offering a fine blend of experience and innovation in teaching. Presently it is offering an undergraduate programme in Electrical Engineering and three postgraduate programmes in Power System Engineering, Power Electronics and Drives and Power System Management. M.Tech in power system management (PSM) is one of its kind program established in 2018 for capacity building in areas of Regulatory, markets, and managerial issues of evolving power sector. Presently the program has 35 registered students. The department is a home to over 50 research scholars, pursuing their Ph.D. in varied fields of Electrical Engineering. The department provides a life-long learning experience, through its state of art laboratories, a vast pool of courses, and industry orientation. Having strong collaborative framework with reputed universities in India and abroad, the department offers ample opportunities for individual growth.

Centre for Energy and Environment

Centre for Energy and Environment (CEE) was established in 2012 to enable sustainable and cost effective innovations and develop facilities for multi-disciplinary research in the areas of renewable energy and environment. Centre of Energy and Environment shares the knowledge and research at the scale of individual components as well as of large systems, with a focus on the interaction between these two. Centre is a leading research centre of renewable energy systems in northwest India. Apart from 11 faculty members working in all technology areas of energy and environment, the centre has over 25 research scholars. Currently, with ongoing projects worth over INR 5 crores from multiple national and international funding agencies, it has collaborations across the world, including US, UK, Germany, Austria and the like, providing ample international engagements. Centre has established 6 ultra-modern functional labs with state of art sophisticated instruments. Energy storage is a developing area of research at the centre, with a rich laboratory for research and development of multiple energy storage technologies.

Jaipur City

The city of Jaipur, also known as Pink City and is the capital and largest city of Rajasthan. Jaipur has the attractions like Hawa Mahal, Amber Fort, Nahargarh Fort, Jaigarh Fort, Jal Mahal, Kanak Vrindavan Valley, City Palace, Jantar Mantar, Albert Hall Museum, Sisodia Rani Garden, Govind Devji Temple, and Birla Temple. It is a bustling trading center with colorfully set bazaars, people with turbans, puppet sellers, festivals and fairs. September to March is the best time to visit Jaipur.

How to Reach Us

Road, rail and air services well connect Jaipur. It is about 250 kms from Delhi International Airport. MNIT Jaipur is situated on JLN Marg and is about 9 kms each from the main railway station of Jaipur and Central Bus Stand (Sindhi Camp). Jaipur International Airport is about 3 kms away from the institute.

