

## About MNNIT

**Motilal Nehru National Institute of Technology (MNNIT), Allahabad** was formerly known as Motilal Nehru Regional Engineering College MNREC, Allahabad. It is an institute with total commitment to quality and excellence in academic pursuits, and is among one of the leading institutes in India. It was established in the year 1961 as a joint enterprise of Central Govt. of India and State Govt. of Uttar Pradesh in accordance with the scheme of establishment of REC's. However, with effect from June 26<sup>th</sup> of 2002 the institute became deemed university and an Institute of national importance, now known as Motilal Nehru National Institute of Technology Allahabad.

## About the Department

The Electrical Engineering Department (EED) came into existence in the year 1961, with the objective to produce technical man power of high quality and promote research and development activity. With a modest beginning of introducing four year BE degree course in 1961, a post graduate programme in Electrical Machine / Power System / Control System was introduced in the year 1970-71. Currently, EED offers courses leading to a Bachelor of Technology in Electrical Engineering and Post Graduate (M. Tech.) and Ph.D programs in (i) Power Electronics and Drives (ii) Control & Instrumentation and (iii) Power System, under Regular, Part-Time and QIP categories. The vision of the Department is to produce globally competitive technical manpower with sound knowledge of theory and practice, with a commitment to serve the society and to foster cutting edge research in Electrical Engineering pertaining to the problems currently faced by the country and the world.

## APT-2021 Committee

### Patron

Prof. Rajeev Tripathi,  
Director, MNNIT Allahabad, India

### Chairman

Prof. Rajesh Gupta, Head, EED

### Coordinator (s)

Dr. Nitin Singh, EED, MNNIT Allahabad  
Dr. Niraj K. Choudhary, EED, MNNIT Allahabad

### Convener (s)

Dr. Navneet K. Singh, EED, MNNIT Allahabad  
Dr. Prashant K. Tiwari, EED, MNNIT Allahabad  
Dr. Saumendra Sarangi, EED, MNNIT Allahabad  
Dr. Suman M, EED, MNNIT Allahabad

### Advisory Committee

Prof. R. K. Singh, EED, MNNIT Allahabad  
Prof. R. K. Tripathi, EED, MNNIT Allahabad  
Prof. Shubhi Purwar, EED, MNNIT Allahabad  
Prof. Paulson Samuel, EED, MNNIT Allahabad  
Prof. Asheesh K. Singh, EED, MNNIT Allahabad  
Prof. Richa Negi, EED, MNNIT Allahabad

## Registration Fees

Category	Registration Fees (Rs.)
Students	500
Persons from Academia	1000
Persons from Industry	1500

## Contact

Dr. Nitin Singh /Dr. Niraj K. Choudhary

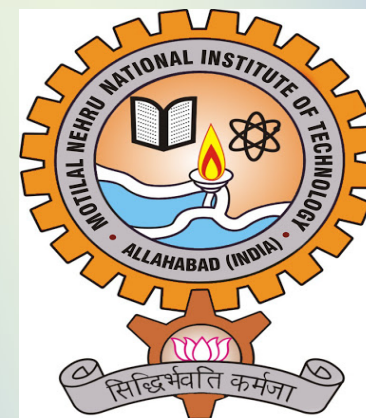
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For more details, visit [www.mnnit.ac.in](http://www.mnnit.ac.in)

**3<sup>rd</sup> One Week  
Self-Financed  
Short Term Course  
On**

**Advances in Power Technologies**

**(APT-2021)  
(Online Course)**

**20<sup>th</sup> – 24<sup>th</sup> December, 2021**



**Organized By**

**Department of Electrical Engineering  
Motilal Nehru National Institute of Technology  
Allahabad, Prayagraj  
UP - 211004, India**

## About APT-2021

Depleting fossil fuels and increasing concern for the global warming has led to explore the alternative and renewable sources of energies such as solar PV, Wind Power Generation, Fuel Cell, etc. Government is also focusing on tapping the energy potential of the solar PV in big way. It has given rise to the decentralized power generation and distribution systems. Emphasis on the development of smart cities has also posed many challenges such as need of green and clean energy, smart transportation systems etc. This has led to the increasing penetration of Distributed Generation in the form of micro grid.

The Department of Electrical Engineering has successfully organized two consecutive one-week short term course on Advances in Power Technologies (APT), i.e., APT-2017 & APT-2018, from 15th – 20th May, 2017, and 10th – 14th September, 2018. The 2nd one-week short term course on Advances in Power Technologies (APT-2018) from 10th – 14th September, 2018, was organized in joint collaboration with the Department of Electrical Engineering, KNIT Sultanpur, under the twinning scheme of TEQIP-III. In continuation of the same, the Department of Electrical Engineering, MNNIT Allahabad proposes to organize the 3rd one-week short term course on Advances in Power Technologies (APT-2021). This one week short term course on “Advances in Power Technologies” aims to make people aware about the integrated power development schemes and changing scenario in the power sector. This is an interdisciplinary course that will cover the application of power electronics and intelligent control systems in the area of power systems. It will also focus on dissemination of the state of art knowledge in Modern distribution system and grid interface technologies.

## Course Outline & Outcome

This 3rd one week short term course on “Advances in Power Technologies (APT-2021)” will cover the following broad areas but not limited to:

- Power Electronic Converters for Renewable Energy System
- Renewable grid integration challenges
- Control and Protection Aspects in Smart Grid System
- DC Microgrid operation & Control
- Smart Metering System
- IOT Application in Power System
- Demand and load side management
- Smart grid communication
- Forecasting in renewable energy systems
- Energy Storage System
- Distribution generation management
- Machine learning Application in Power Systems

The participants will learn about the existing and future technological developments and issues in the area of power sector. The participants will also get in hand training on PSCAD, MATLAB, EMTD.

## Resource Persons

The sessions will be handled by experts from academia, research organizations and industry in the subject area.

## How to Apply

Candidates are required to email the scanned copy of the duly filled registration form along with the payment details to apt.mnnit@gmail.com by 16th December, 2021.

## Who Can Attend?

The course will be useful for the faculty members/ Doctoral & PG students of different Universities/ Institutes/ colleges & Professionals working in the Industries. Limited number of U.G. students may also be selected based on the availability of seats. Selected candidates will be informed through email.

## Important Dates

Last date of application: 16.12.2021  
Intimation of selection: 18.12.2021

## Registration form

3rd One Week  
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On

Advances in Power Technologies  
(APT-2021)  
(Online Course)  
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Organized by  
Department of Electrical Engineering,  
MNNIT Allahabad, Prayagraj-211004.

Full Name-----  
(in BLOCK letters, as desired on certificate)

Designation: -----

Affiliation: -----

Highest qualification: -----

Experience (if any): Teaching: ----- Industry: -----

Address for correspondence: -----  
-----

Mobile: -----

Email ID: -----

Fees to be submitted to the account with the following details:

Account Name: APT-2021, Account Type: Current

Account number: 77660200001298

IFSC Code: BARB0VJMNRE, Branch: BOB, MNNIT Allahabad

Registration fees details:

Bank: ----- Amount: -----

Transaction ID:----- Date: -----

Signature of Applicant