

**QIP SHORT TERM COURSE
(ONLINE)**

**Challenges, Opportunities, and
Emerging Trend in the Field of
High Voltage and Electrical
Insulation
(1– 6 Feb. 2021)**

Registration Form

Full Name	
Designation	
Highest academic qualification	
Specialization	
Institute/University	
Email	
Mobile No.	
Address	

Name & Signature of the candidate

Prof./Dr./Mr./Ms./Mrs.

.....is
an employee of our
institute/university/organization. He
will be allowed to participate online in
the QIP short term course on
“Challenges, Opportunities, and
Emerging Trend in the Field of High
Voltage and Electrical Insulation” by
EE Department and SMST of IIT
(BHU) during 1st Feb. -6th Feb. 2021.

**Signature of Head of the
Department/institution/organization**
(With name, designation, and official
seal)

ABOUT THE COURSE

High voltage finds its technological application in many areas viz. electrical power system, environmental pollution control, medical imaging, electron microscopy, nuclear physics, pulse power, defence, food processing. Harvesting the potential benefits of high voltage in different application areas requires critical awareness and fundamental understanding on various aspects of electrical insulation.

The proposed short-term course will provide a wide coverage on various aspects of high voltage electrical insulation and familiarize participants on fundamental as well as on recent advances in this field. Major topics to be covered during the course include:

- High voltage fundamentals: An overview of different failure mechanism in electrical insulation, high voltage generation and measurement techniques.
- Recent progress in application of high voltages: Pollution control, Pulse power engineering
- Novel methods in analysis of electrical discharges
- Nano-dielectrics: Synthesis, characterization, challenges, and opportunities
- Progress in liquid dielectrics (mineral, synthetic, and natural ester based nano fluid)
- Recent advances in condition monitoring and diagnostics of power transformer

Resource Persons

Subject experts from premier institutions like IISc, IITs, NITs and others reputed institutions.



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(Online)

On

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Emerging Trend in the Field of High
Voltage and Electrical Insulation
(1– 6 Feb. 2021)**

Coordinator

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Jointly Organized by

Department of Electrical
Engineering & School of Material
Science and Technology, Indian
Institute of Technology (Banaras Hindu
University)

Registration and Important dates

This course is open to faculty members from AICTE approved educational institutes, and there is no registration fee to attend the course. Interested faculty may register by uploading scanned copy of signed registration form and institute ID card in the Google form.

Google form link:

<https://forms.gle/nBtFsuRBbQhxszpFA>

**Last date of registration: 20th January
2021**

About Varanasi City

The holy city Varanasi, one of the oldest living cities on earth is also known as the city of temples, lights and learning. Being situated on the banks of the holy river Ganges, Varanasi is a place of great historical and cultural importance. This religious and spiritual capital of India is famous for temples of Lord Shiva, Buddha (at Sarnath) and Sankat Mochan etc. Lord Buddha gave his first set of sermons at Sarnath, located in the outskirts of Varanasi, nearly 2500 years ago. Buddhists from all over the world visit the holy city on pilgrimage.



About IIT (BHU)

Established in 1919, the Indian Institute of Technology (Banaras Hindu University) owes its existence to the farsighted vision of its founder Bharat Ratna Mahamana Pandit Madan Mohan Malaviya. Initially, three engineering and technological institutions were established namely, BENCO in 1919, MINMET in 1923 and TECHNO in 1932. The first ever bachelor degree in Ceramics, Electrical, Mechanical, Metallurgy and Mining Engineering and Pharmacy in India were pioneered at BHU while Pharmacy was the first in Southeast Asia. Later, BENCO, MINMET and TECHNO were merged to form Institute of Technology (IT-BHU) in 1968. In 2012, IT-BHU was converted into IIT (BHU), Varanasi.



About EE Department

Since the inception of Banaras Engineering College in 1919, combined Bachelors' degree in Mechanical and Engineering was awarded till 1952. Department of Mechanical Engineering and Department of Electrical Engineering were separated in 1953. Presently, Department of Electrical Engineering runs five post graduate (M. Tech.) programmes in Electrical Machines and Drives (started in 1956), Power Systems (started in 1964), Control Systems (started in 1964), Power Electronics (started in 1982) and Interdisciplinary Systems Engineering (started in, 1982) and Ph. D. programme in all disciplines of Electrical Engineering.

