

College of

ENGINEERING & TECHNOLOGY

Approved by AICTE & Affiliated to Anna University

Anand Nagar, Nellikuppam Main Road, S. Kumarapuram, Cuddalore - 607 109, Tamil Nadu.

2 (04142) 285 601 - 604 www.kcet.in

Minfo@kcet.in

A Seminar entitled on "High Voltage Engineering & its Research Awareness" held on 23.03.2023 conducted by Department of Electrical and Electronics Engineering, KCET, Cuddalore.

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING



KRISHNASAMY

ENGINEERING & TECHNOLOGY



Cordially invite you to the

Technical Seminar

"HIGH VOLTAGE ENGINEERING

its RESEARCH AWARENESS"

On Thursday the 23" March, 2023 by 10,000 a.m. at A Black seminar half in the college

Mrs . E. Kalaiarasan, MF_(PhD) SUZLON MICRO TECH PV LTD

has kindly consented to deliver the key note address

Dr. K. RAJENDRAN, M.S., FICS., FAIS.,

Chairman,

Krishnasamy College of Engineering & Technology, presides.

Mr. N.VIJAYAKUMAR, B.A., B.L.,

Secretary.

Krishnasamygroup of Educational Institutions. Felicitates.

Er.F.Rajasekaran

Dr.S.Sivasakthi

Dr. G. Elango

Co-ordinator

HOD-EEE

Principal



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Attendance of the students during the Session



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Programme Report for a Seminar entitled on "High Voltage Engineering & its Research Awareness"

High voltage engineering is a specialized field of electrical engineering that deals with the study and application of electrical systems operating at voltages above the standard levels. While there's no strict definition of "high voltage," it typically refers to voltages above 1000 volts. Here are some key aspects and applications of high voltage engineering:

1. Generation and Transmission:

High voltage is crucial for efficient power transmission over long distances. Power generation plants produce electricity at medium voltage, which is then stepped up to high voltage for transmission through power lines to substations and eventually to consumers

. 2. Insulation

High voltage systems require special insulation to prevent leakage currents and breakdown. Materials like oil, gas (such as sulfur hexafluoride), and solid insulators are used to insulate components like transformers, cables, and switches.

3. Equipment Design and Testing:

Designing equipment that can handle high voltages safely and efficiently is a primary concern in high voltage engineering. This includes transformers, circuit breakers, switches, and insulators. These components undergo rigorous testing to ensure they can withstand high voltage stresses.

4. Safety

Safety is paramount in high voltage systems due to the potential hazards associated with high voltages. Proper safety measures, including grounding, shielding, and warning signs, are essential in high voltage installations. 5. High Voltage Direct Current (HVDC) Transmission HVDC transmission is becoming increasingly important for long-distance power transmission due to its lower losses compared to AC transmission at high voltages. High voltage



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engineering plays a significant role in the design and operation of HVDC systems. 6. Environmental Impact High voltage systems, especially transmission lines, can have environmental impacts. High voltage engineering may involve mitigating these impacts through better design and routing of transmission lines. Overall, high voltage engineering is a multidisciplinary field that encompasses aspects of electrical engineering, physics, materials science, and safety engineering to ensure the efficient and safe operation of electrical system

Coordinator

CUDDALORE GO 607 109. Principal

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