

# DEPARTMENT OF ELECTRICAL ENGINEERING

## HIGH VOLTAGE ENGINEERING LABORATORY

### List of Experiments

#### EE6591 High Voltage Lab

1. AC, DC AND IMPULSE BREAKDOWN TEST OF INSULATION
2. CAPACITANCE AND  $\tan\delta$  MEASUREMENT OF INSULATOR.
3. MAPPING OF ELECTRIC FIELD LINES BETWEEN TWO CHARGES USING MATLAB
4. SIMULATION OF IMPULSE VOLTAGE GENERATION CIRCUITS USING PSPICE/PSCAD.
5. PLOTTING THE ELECTRICAL FIELD DISTRIBUTION IN AN INSULATING MATERIAL USING COMSOL (WITH AND WITHOUT VOID).
6. MEASUREMENT OF INSULATION RESISTANCE OF CABLE
7. PLOTTING  $\phi$ - $q$ - $n$  PATTERN FOR CORINA DISCHARGE USING PARTIAL DISCHARGE DETECTOR
8. TRAVELLING WAVE CHARACTERISTICS WITH DIFFERENT LINE TERMINATIONS USING PSCAD.
9. FIELD DISTRIBUTION BETWEEN PLATES OF A PARALLEL PLATE CAPACITOR USING ANSYS.
10. OIL BREAKDOWN TEST USING OIL TEST KIT
11. PREPARATION OF EPOXY NANOCOMPOSITE
12. DIELECTRIC CHARACTERISTICS OF SOLID INSULATING MATERIAL USING IMPEDANCE ANALYSER

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