

# **King Fahd University of Petroleum & Minerals**

Electrical Engineering Department

**EE 620: High Voltage Engineering**  
(First Semester 051)

Project #3

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## **Introduction**

Catastrophic failures of the HV apparatus such as GIS, HV cable termination, Rotating Machines and power transformers are usually preceded by problems in the insulation structure. Therefore, it is so important that these equipment undergo routine and type tests after manufacturing to make sure that they satisfy the international standards. The widely used standards are the IEC, ANSI and IEEE.

## **You are expected to do the following:**

### **a) Select one of the following topics:**

- 1) GIS**
- 2) CABLE TERMINATIONS.**
- 3) TRANSFORMERS**
- 4) ROTATING MACHINES**

**b) Look at the different standards used for the selected equipment.**

**c) Prepare a power point presentation that includes your findings.**