

Faculty: <b>FACULTY OF ENGINEERING</b>	
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**UTM**  
UNIVERSITI TEKNOLOGI MALAYSIA


**SCHOOL OF ELECTRICAL ENGINEERING**  
FACULTY OF ENGINEERING

# SKEE3742

## ADVANCED POWER LABORATORY

### PROBLEM

## Open circuited Distribution System

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## **Problem:**

Your distribution company is supplying customers with 3 phase four wire supply. In an occasion, a contractor accidentally disconnects one of the wires in the distribution system. Due to his action, your distribution company receives many reports of damages to household electrical appliances. You as the distribution engineer are responsible to investigate what is really happening. Justify your findings with an experiment.

## **Triggers:**

1. Study three phase systems.
2. Understand balanced and unbalanced loads.
3. Simulate the distribution system using suitable software and justify your answer with experimental results.