



## **UNIVERSITY OF RUHUNA**

### **Faculty of Engineering**

Design Assessment on Backup Power Supply: 2022

**Module Number: EE8206**

**Module Name: Electrical Installations II**

The design assignment carries 5 marks

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- 1
  - Conduct the load calculations by considering the power factor, utilization factor, and diversity factor for each floor of the buildings of the **Department of Electrical and Information Engineering, Department of Mechanical and Manufacturing Engineering** by the assigned groups.
  - Select the essential loads in two separate buildings while mentioning, why the particular load is essential.
  - Based on the essential loads, design two separate backup power supply generators for two separate buildings.

Include the summary of the load calculation and generator sizing in two separate reports and make a table and enter the works carried out by each person.

You can include photographs of the site visit in the appendix.

Report to submit: On or before 13<sup>th</sup> of July 2022 11.55 PM to the LMS (**5 Marks**)