**Department of Electrical and Electronic Engineering**

**ASSIGNMENT EE255**

**Electric Power**

**10% of the total module mark**

**Student Name**: ………………………………………………..

**Student Number**: ……………………………………………...

The coursework will be assessed based on the following criteria:

|  |  |  |
| --- | --- | --- |
| **Activity** | | **Weighting/%** |
| **1** | **Understanding wires – Typical wire sizes and their parameters** | **5** |
| **2** | **Understanding the protective devices**   * Describe the operation of the magnetic element, bi-metallic strip, and arc-chutes of an MCB * Describe the operation of an RCCB with a diagram | **10** |
| **3** | **Wiring System Experiment (Result obtained)** | **5** |
| **4** | **Design the Electrical System** |  |
|  | Defining the circuit subdivision | **5** |
|  | Provide a plan with electrical outlets, switches, lighting fixtures, and fans | **15** |
|  | Selecting the MCBs | **10** |
|  | Selecting wires | **30** |
|  | Create a detailed wiring diagram | **10** |
|  | Providing a BoQ | **10** |

**FINAL MARK: /100**