**PO and PSO Mapping for Mini-Project work (18EC6DCMPR)**

**August 2021**

**Mini-Project work Group No.: A1**

|  |  |
| --- | --- |
| **USN** | **Name** |
| XXXXXXXXX | Spoorthy M K |

**Guide Name: Dr. Mahesh kumar N**

**PO & PSO mapping for Mini-Project work (example) – tick whatever is applicable, Map with the “ √ “tick mark against appropriate PO and PSO**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| USN | PO  1 | PO  2 | PO  3 | PO  4 | PO  5 | PO  6 | PO  7 | PO  8 | PO  9 | PO  10 | PO  11 | PO  12 | PSO1 | PSO  2 |
| 1DS18EC | √ | √ | √ | √ | √ | √ |  |  | √ | √ | √ | √ | √ | √ |

**Justification for PO & PSO mapping for Mini-Project work (18EC8DCTHS)**

|  |  |
| --- | --- |
| **Title of the MINI - PROJECT :** | |
| **PO1** | Learnt how to interface Arduino UNO |
| **PO2** | Blackouts will result if load shedding is not efficiently performed. |
| **PO3** | Learnt how to utilize IOT. |
| **PO4** | Learnt the usage relay to switch between loads. |
| **PO5** | Learnt how to interconnect hardware with cloud. |
| **PO6** | Learnt to reduce the human effort caused due to manual handling. |
| **PO7** |  |
| **PO8** |  |
| **PO9** | Learnt to manage time and handle work with coordination. |
| **PO10** | Learnt to connect socially. |
| **PO11** | Learnt budget management. |
| **PO12** | Learnt how to develop existing technology using modern technology. |
| **PSO1** | This project design gives the best result for distributing current fairly to all loads. |
| **PSO2** | This project maintains proper load shedding time and switch power between loads automatically without any delay using IOT. |

**Signature of the Guide**

**Mini-Project work cost estimation**

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| **Sl.**  **No.** | **Particulars** | **Estimated Cost**  **in Rupees** |
| **1** | Arduino UNO | 399 |
| 2 | ESP8266 CH340 Node MCU WI-FI module | 260 |
| 3 | 16x2 LED display | 210 |
| 4 | RGB LED | 30 |
| 5 | DC Power Adapter | 99 |
| 6 | Breadboard connecting wires | 110 |
| 7 | MB102 coloured Breadboard | 69 |
| 8 | Push buttons | 24 |
| 9 | Breadboard power supply module | 69 |
| 10 | Jumper wire | 82 |
| 11 | Small piezoelectric buzzer | 11 |
| 12 | Li-ion 1800mAh battery | 237 |
| 13 | Relay module (5V) | 558 |
| 14 DS3231 RTC module | | 250 |
| 15 CMOS cell | | 30 |
| 16 LCD base | | 60 |
| 17 Copper clad board | | 60 |
| Total | | 2558.00 |

**Signature of the Guide**