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( An Autonomous Institute Affiliated to VTU, Approved by AICTE & ISO 9001:2008 Certified )
( Accredited by National Assessment & Accreditation Council (NAAC) with 'A' grade, NIRF Rated )

# Department of E & CE

## ELECTRONICS & COMMUNICATION ENGINEERING

## 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 | PSO 1 | 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**

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## ELECTRONICS & COMMUNICATION ENGINEERING

## Mini-Project work cost estimation

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

| USN | Name |
|---|---|
| XXXXXXXX | Spoorthy M K |

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

| 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**