# Faculty of Electrical Engineering

## M.E. Embedded System Technologies

### (R 2021) Semester – I

| Course Code: ET4111 Course Title: Embedded System Laboratory – I | | |
|---|---|---|
| **Sl. No.** | **Description of Equipment** | **Required numbers (for batch of 25 students)** |
| 1. | 8051 Microcontrollers/ any other CISC 8 bit microcontroller with peripherals; IDE, Board Support Software Tools , Assembler , C Compiler/suitable open source software | 10 |
| 2. | PIC Microcontrollers/ any other RISC 8 bit microcontroller with peripherals; IDE, Board Support Software Tools , Assembler , C Compiler/suitable open source software | 6 |
| 3. | 8 Bit CISC/RISC microcontroller Compatible ADC interface Unit | 3 |
| 4. | 8 Bit CISC/RISC microcontroller Compatible DAC interface Unit | 3 |
| 5. | LCD interface | 3 |
| 6. | Sensors and Interfacing | **6 sets** |
| 7. | Stepper Motors and Interface | 3 |
| 8. | BLDC motor & Interface | 2 |
| 9. | Desktop computer/Laptop | 10 |
| 10. | CRO | 1 |

# Faculty of Electrical Engineering
## M.E. Embedded System Technologies
### (R 2021) Semester – I

| Course Code: ET4112    Course Title: Embedded Programming Laboratory – I | | |
|---|---|---|
| **Sl. No.** | **Description of Equipment** | **Required numbers (for batch of 25 students)** |
| 1 | Desktop computer/Laptop | 20 |
| 2 | C/C++/Java/Embedded C/Embedded Java/ Compilers &Platforms/cloud | 20 |
| 3 | Arduino Boards with peripherals ;IDE, Board Support Software Tools /Compiler/others | 10 |
| 4 | FPGA Processor Boards with Board Support Tools & Interfaces | 3 |
| 5 | Simulation Tools  Proteus/ ORCAD | 5 users |
| 6 | Simulation Tools MATLAB /any other suitable Simulation software packages for programming/open source simulators | 5 users |