

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

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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

Degree: PG		Name of the Course: M.E. EMBEDDED SYSTEM TECHNOLOGIES
Course Code: ET4211		Course Title: EMBEDDED SYSTEM LABORATORY - II (R 2021) Semester: II
Sl. No.	Description of Equipment	Required numbers (for batch of 25 students)
1.	ARM7 / ARM9/ARM Cortex/ any other ARM higher end processor with peripherals; IDE, Board Support Software Tools , Assembler , C Compiler/suitable open source software	5
2	Arduino Boards with peripherals ;IDE, Board Support Software Tools /Compiler/others	10
3	Rasperry Pi Boards with peripherals ;IDE, Board Support Software Tools /Compiler/others	5
4	DSP Processor Boards with Board Support Tools & Interfaces	5
5	LCD Interface	2
6	Sensors and Interfacing	6 sets
7	Stepper Motors and Interface	3
8	BLDC motor & Interface	2
9	Real Time Operating Systems (RTOS)- Any open source RTOS/ VXWorks/ Keil/ Android/Tiny OS/ RT Linux	1
10	Desktop computer/Laptop	25

Degree: PG		Name of the Course: M.E. EMBEDDED SYSTEM TECHNOLOGIES
Course Code: ET4212		Course Title: EMBEDDED PROGRAMMING LABORATORY - II
(R 2021) Semester: II		
Sl. No.	Description of Equipment	Required numbers (for batch of 25 students)
1	Desktop computer/Laptop	25
2	Open source IDE for programming (Visual Studio code/code blocks/any other IDE)	25
3	Any MEMS simulation package /Open source	1
4	Any CAD package/open source	1
5	Labview/ any other software package /open source tools for instrumentation and control	5
6	NS2/NS3/optNet	25
7	Python compilers	25
8	Linux OS (Ubuntu/any other Linux OS)	25