



Department of Electronics and Communication Engineering		LP: EC22612
B.E/B.Tech/M.E/M.Tech : ECE Regulation: R2022		Rev. No: 00
PG Specialisation : Not Applicable		Date: 21/01/2025
Sub. Code / Sub. Name : EC22612 / EMBEDDED SYSTEMS AND IOT LABORATORY		

Session No*	List of Experiments
CYCLE-I (using IAR WorkBench / ARM Processor)	
1	Study of ARM evaluation system – Flashing of LEDs.
2	Interfacing DAC.
3	Interfacing ADC.
4	Interfacing PWM and LED.
5	Interfacing keyboard and LCD.
6	Interfacing of stepper motor and servo motor.
7	Implementing ZigBee protocol with ARM.
CYCLE-II (Using RASPBERRY Pi 3 and NODEMCU)	
8	Study of Raspberry Pi and OS installation.
9	Simple web interface for Raspberry Pi to control the connected LEDs remotely through the interface.
10	Implementation of client and server applications on Raspberry Pi.
11	Interface a temperature sensor to build a weather reporting system.
12	Study of NodeMCU features.
13	Interfacing NodeMCU board to a computer via USB for serial communication.
Content beyond syllabus (if any): Flashing of LEDs using ARM.	

* Session Duration: 150 minutes



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COURSE DELIVERY PLAN - LABORATORY Page 2 of 2

Sub. Code / Sub. Name: EC22612 / EMBEDDED SYSTEMS AND IOT LABORATORY

	Prepared by	Approved by
Signature		
Name	Dr.S.Vijayanand, Ms.K.S. Subhashini, Mr.S.P.Sivagnana Subramanian, Dr.S.Radhika, Mr.S.Elangovan, Ms.K.Bhuvaneshwari	Dr.G.A. Sathish Kumar
Designation	Associate Professor/ Assistant Professor	Professor and Head
Date	21/01/2025	21/01/2025
Remarks* :		

* If the same lab plan is followed in the subsequent semester/year it should be mentioned and signed by the Faculty and the HOD