



DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

Lesson Plan & Work-done Diary for AY: 2025-2026, EVEN Semester

Course with Code: MICRCONTROLLERS / BEE403				Faculty: Kavyashree S		Semester & Section: IV	
Class No.	Date planned (DD/MM)	Topics to be covered	TLP Planned	Date of Conduction (DD/MM)	Topics Covered	TLP Executed	Remarks if any deviation
MODULE-1							
1		8051 Microcontroller Basics Inside the Computer, Microcontrollers and Embedded Processors	ICT				
2		Block Diagram of 8051	Chalk & Talk ICT				
3		PSW and Flag Bits, 8051 Register Banks and Stack	Chalk & Talk				
4		Internal Memory Organization of 8051	Chalk & Talk ICT				
5		IO Port Usage in 8051	Chalk & Talk ICT				
6		Types of Special Function Registers and their uses in 8051	Chalk & Talk				
7		Pins of 8051. Memory Address Decoding, 8031/51 Interfacing with External ROM And RAM	Chalk & Talk				
8		8031/51 Interfacing with External ROM And RAM + VTU Question Paper Discussion	Chalk & Talk				



DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

Course with Code: MICRCONTROLLERS / BEE403				Faculty: Kavyashree S		Semester & Section: IV	
Class No.	Date planned (DD/MM)	Topics to be covered	TLP Planned	Date of Conduction (DD/MM)	Topics Covered	TLP Executed	Remarks if any deviation
MODULE 2							
09		Module 2: Assembly programming and Instructions of 8051: Introduction to 8051 ALP	Chalk & Talk ICT				
10		Assembling and running an 8051 program	Chalk & Talk				
11		Data types and assembler directives	Chalk & Talk				
12		Assembly level programs	Chalk & Talk				
13		Arithmetic, Logic instructions and programs	Chalk & Talk				
14		Jump instructions, Loop & call instructions	Chalk & Talk				
15		Programs on jump, loop call, arithmetic	Chalk & Talk ICT				
16		IO port programming Programs on port programming + VTU Question Paper Discussion	Chalk & Talk				



DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

Course with Code: MICRCONTROLLERS / BEE403				Faculty: Kavyashree S		Semester & Section: IV	
Class No.	Date planned (DD/MM)	Topics to be covered	TLP Planned	Date of Conduct ion (DD/MM)	Topics Covered	TLP Executed	Remarks if any deviation
MODULE 3							
17		Module-3 8051 Programming in C Data types and time delay in 8051 C	Chalk & Talk ICT				
18		IO programming in 8051 C	Chalk & Talk				
19		Logic operation in 8051 C	Chalk & Talk				
20		Programs	Chalk & Talk				
21		Data conversion program in 8051 C	Chalk & Talk				
22		Accessing code ROM space in 8051 C, data serialization using 8051 C	Chalk & Talk ICT				
23		8051 timer programming in assembly & C	Chalk & Talk				
24		Programing 8051 timer's counter programing Programing timers in 8051 C + VTU Question Paper Discussion	Chalk & Talk ICT				



DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

Course with Code: MICRCONTROLLERS / BEE403				Faculty: Kavyashree S		Semester & Section: IV	
Class No.	Date planned (DD/MM)	Topics to be covered	TLP Planned	Date of Conduction (DD/MM)	Topics Covered	TLP Executed	Remarks if any deviation
MODULE 4							
25		MODULE 4: Serial port programming in assembly & C : Basics of serial communication	Chalk & Talk ICT				
26		8051 Connection to RS-242	Chalk & Talk ICT				
27		8051 Serial port programming in Assembly- Programs on Data Serialization	Chalk & Talk				
28		8051 Serial port programming in assembly	Chalk & Talk				
29		Serial port programming in 8051 C	Chalk & Talk				
30		8051 Interrupt programing assembly & C 8051 interrupts	Chalk & Talk				
31		Programming timer, external Hardware	Chalk & Talk				
32		Serial Communication interrupt Interrupt priority in 8051/52 Interrupt programming in C +VTU QP Discussion	Chalk & Talk ICT				



DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

Course with Code: MICRCONTROLLERS / BEE403				Faculty: Kavyashree S		Semester & Section: IV	
Class No.	Date planned (DD/MM)	Topics to be covered	TLP Planned	Date of Conduction (DD/MM)	Topics Covered	TLP Executed	Remarks if any deviation
MODULE 5							
33		MODULE-5: Interfacing LCD interfacing Keyboard interfacing	ICT				
34		ADC, DAC and senso interfacing. ADC0808 interfacing to 8051	Chalk & Talk ICT				
35		Serial ADC Max1112 ADC interfacing to 8051 DAC interfacing	Chalk & Talk ICT				
36		Sensor interfacing and signal conditioning Motor Control: Relay PWM DC	Chalk & Talk				
37		Stepper Motor: relay and opt isolator DC motor interfacing and PWM	Chalk & Talk				
38		Programming of Different interfacing: ADC, DAC, Stepper and DC Motor, LCD, PWM	Chalk & Talk				
39		Programming of Different interfacing: ADC, DAC, Stepper and DC Motor, LCD, PWM	Chalk & Talk				
40		8051 interfacing with 8255: programming the 8255, interfacing, C programming for 8255	Chalk & Talk				



DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

	Activity	Planned	Actual	Remarks
1	Theory Classes	40		
2	Assignments/Quizzes/ Self study	2: Write Up and (Mock Test) 1: Group Activity		
3	Tutorials/ Extra classes	-		
4	Internal Assessments	3		
5	ICT based Teaching (40% of usage in Curriculum)	15/40 Classes= 37.5% ICT		
	Planning		Execution	
	Faculty Signature:		Faculty Signature:	
	HoD Signature:		HoD Signature:	



A T M E
College of Engineering



DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING



Department of EEE
Emitting Elite Energy