

LESSON PLAN(Summer -2026)

VENUS GROUP OF EDUCATIONAL & RESEARCH INSTITUTES,BAHANAGA,BALASORE-756042

Discipline:Electronics & telecomm.engg		Semester:4th	Name of teaching faculty: Sulochana Das
Subject:Embedded system		No. of days per week class allotted:5	Semester from 22.12.2026 To date: 18.04.2026 No of weeks: 12
SL.NO	WEEK	CLASS DAY	TOPICS
1	1st	1ST	Block diagram of embedded system with hardware components
2		2nd	Hardware and Von-Neumann architecture
3		3rd	RISC and CISC processors
4		4th	Characteristics of Embedded System
5		5th	Operating system
6	2nd	1ST	Power consumption
7		2nd	Unit cost, size, flexibility
8		3rd	Time to prototype and time to market
9		4th	Correctness and safety
10		5th	Classification of Embedded System
11	3rd	1st	Small scale
12		2nd	Embedded System Design
13		3rd	The concept of embedded systems design
14		4th	Embedded microcontroller cores
15		5th	Embedded memories
16	4th	1st	Examples of embedded systems
17		2nd	Technological aspects of embedded systems
18		3rd	Interfacing between analog and digital blocks
19		4th	Signal conditioning
20		5th	Digital signal processing
21	5th	1st	Sub-system interfacing
22		2nd	Interfacing with external systems
23		3rd	User interfacing
24		4th	Design tradeoffs due to process compatibility and thermal considerations
25		5th	Software aspects of embedded systems
26	6th	1st	Real time programming languages
27		2nd	Operating systems for embedded systems
28		3rd	Programming Embedded System in C

29		4th	Data transfer
30		5th	Arithmetic and Logical operations
31	7th	1st	Decision Control & Looping
32		2nd	Timer/Counter Programming with Embedded C for Microcontroller
33		3rd	Interrupt Control programming with Embedded C for Microcontroller
34		4th	Processor
35		5th	Power
36	8th	1st	Reliability
37		2nd	Memory
38		3rd	Performance
39		4th	Power consumption
40		5th	NRE cost
41	9th	1st	Maintainability
42		2nd	Time to prototype and time to market
43		3rd	Medium scale
44		4th	Sophisticate
45		5th	Standalone
46	10th	1st	Real time
47		2nd	Interfacing between analog and digital blocks
48		3rd	Signal conditioning
49		4th	Digital signal processing
50		5th	Sub-system interfacing
51	11th	1st	Interfacing with external systems
52		2nd	User interfacing
53		3rd	Real time programming languages
54		4th	Technological aspects of embedded systems
55		5th	Data transfer
56	12th	1st	Arithmetic and Logical operations
57		2nd	Decision Control & Looping
58		3rd	Operating systems for embedded systems
59		4th	Timer/Counter Programming with Embedded C for Microcontroller
60		5th	Interrupt Control programming with Embedded C for Microcontroller

Sign.Of Faculty

Sign.OF Principal

