Lesson Plan

	Discipline: ETC	Semester-4th Summer-2026	Name of the Teachng Faculty: Devipuja Mohapatra(Guest Faculty ETC Engg.)
Sl. No.	Subject-Th.4. MICROPROCESSORS & MICROCONTROLLER	No. Of Days/Week class alloted:03	Semester From date:-22.12.2025 To date: 18.04.2026 (No of weeks: 15)
	Weeks/Months	Class Day	Topic
1	4Th week 22nd decTo 31th dec	1st	1.1Architecture of 8085 Microprocessor (Functional Block
		2nd	1.2Registers
		3rd	1.3ALU
2	1st week 1st jan To 09th jan	1st	1.4Bus systems
		2nd	1.5Timing and control signals
		3rd	1.6Machine cycles and timing diagrams.
3	2nd week 12th jan To 17th jan	1st	2.1 Programming of 8085
		2nd	2.2 Addressing modes
		3rd	2.3 Instruction set
4	3rd week 19th jan To 22th jan	1st	2.4 Need for Assembly language
		2nd	2.5 Development of Assembly language programmes.
		3rd	3.1 Memory Interfacing (Interface requirements)
5	4th week 27th jan To 31th jan	1st	3.2 Address space partitioning
		2nd	3.3 Buffering of Buses
		3rd	3.4 Timing constraints
6	1st week 2nd feb To 07th feb	1st	3.5 Memory control signals-Read and Write Cycles
		2nd	3.6 Interfacing SRAM, EPROM and DRAM sections
		3rd	4 .1 I/O Interfacing (Memory mapped I/O Scheme)
7	2nd week 9th feb To 13th feb	1st	4.2 I/O mapped I/O scheme-Input And Output Cycles
		2nd	4.3 Simple I/O ports- Programmable peripheral interface (8255)
		3rd	4.4 Data transfer schemes: Programmable data transfer
8	3rd week 16th feb To 21th feb	1st	4.5 DMA data transfer – Synchronous, Asynchronous and interrupt
		2nd	4.6 Interfacing – Simple keyboards and LED displays. DMA
		3rd	5.1Applications Interfacing of A/D converters (ADC 0800/ADC 0808/ADC 0809)
9	4th week 23th feb To 27th feb	1st	5.2Interfacing of D/A converters (DAC 0800)
		2nd	5.3 Waveform generators
		3rd	5.4 Multiplexed seven segment LED display systems
10	1st week 2nd march To 07th march	1st	5.5 Measurement of frequency, phase angle and power factor
		2nd	5.6 Traffic light controller – Stepper motor Control
		3rd	6.1Intel 8051 Microcontroller (Architecture of 8051)
11	2nd week 9th march To 13th march	1st	6.2 Memory Organization
		2nd	6.3 Addressing modes
		3rd	6.4 Instruction set
12	3rd week 16th march To 20th march	1st	6.5 Boolean processing
		2nd	6.6 Simple programmes.
		3rd	7.1 8051 Peripheral Functions
13	4th week 23th march To 31st march	1st	7.2 8051 interrupt structures a. Smart Home
		2nd	7.3 Timer and serial functions
		3rd	7.4 parallel port features
14	1st week 2nd april To 10th april	1st	7.5Modes of operation – Power control
		2nd	features – Interfacing of 8051
		3rd	7.6Typical applications
15	2nd week 13th april To 18th april	1st	7.7 MCS 51 family features 8031/8051/8751.
		2nd	7.8 Features 8031/8051
		3rd	7.9 Features of 8751

Devipuja Mohapatra
Signature of the Teacher
22/12/2025