

# LESSON PLAN

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Subject Code & Name: 13EC3019&Microprocessors & Microcontrollers Branch: E.C.E  
Class / Semester: III B.Tech/II Semester Academic Year: 2016-2017

Period	Date (Tentative)	Topic	Unit No.	Teaching Methodology	Remarks	Corrective action upon review
		<b>Unit-1</b>	<b>1</b>			
1.	05.12.2016 06.12.2016	Microprocessor 8086	1			
3.	07.12.2016	Introduction,	1	CR		
4.	09.12.2016	architecture	1	LCD		
5.	12.12.2016	register organization,	1	CR		
6.	13.12.2016 14.12.2016	memory organization	1	CR		
8.	16.12.2016	signal description	1	CR		
9.	19.12.2016	and pin diagram	1	CR		
10.	20.12.2016 21.12.2016	addressing modes,	1	CR		
12.	23.12.2016 26.12.2016	assembler directives	1	CR		
14.	27.12.2016	procedures,	1	CR		
15.	28.12.2016	macros.	1	CR		
16.	30.12.2016	and timing diagrams of 8086	1	CR		
		<b>Unit-2</b>				
17.	02.01.2017	Assembly Language Programming of 8086;	2			
18.	03.01.2017	Instruction set,	2	CR		
19.	04.01.2017 06.01.2017 10.01.2017	assembly language programs	2	CR		
22.	11.01.2017 12.01.2017	introduction to stack,	2	CR		
24.	23.01.2017	stack structure	2	CR		
25.	24.01.2017	classification of interrupts,	2	CR		
26.	25.01.2017	interrupt service routine	2	CR		
27.	27.01.2017	and interrupt vector table.	2	CR		
		<b>Unit-3</b>				
28.	01.02.2017	Advanced microprocessors	3			
29.	03.02.2017 06.02.2017 07.02.2017	Architecture, Features,	3	LCD		
32.	08.02.2017	register organization	3	CR		
33.	10.02.2017	signal description,	3	CR		
34.	13.02.2017	data types	3	CR		
35.	14.02.2017	and physical address calculation	3	CR		
36.	15.02.2017 17.02.2017 20.02.2017	mode of operations,	3	CR		

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39.	21.02.2017 22.02.2017	segmentation	3	CR		
41.	24.02.2017 27.02.2017	and paging of 80386	3	CR		
43.	28.02.2017	Introduction to 80486.	3	CR		
		<b>Unit-4</b>				
44.	06.03.2017	Interfacing with 8086	4			
45.	07.03.2017	Programmable interrupt controller (8259A) –	4	CR		
46.	08.03.2017 10.03.2017 11.03.2017	Programmable Peripheral Interface (8255),	4	CR		
49.	13.03.2017 14.03.2017	modes of operation of 8255 DMA controller(8257)	4	CR		
51.	15.03.2017	Key board/display controller (8279)	4	CR		
52.	17.03.2017	Programmable communication interface	4	CR		
53.	20.03.2017	(USART) (8251).	4	CR		
		<b>Unit-5</b>				
54.	21.03.2017	Microcontrollers:	5			
55.	22.03.2017	Introduction,	5	CR		
56.	24.03.2017	architecture,	5	LCD		
	24.03.2017	signal description,	5	CR		
57.	27.03.2017	pin diagram,	5	CR		
58.	28.03.2017 29.03.2017	register set,	5	CR		
60.	31.03.2017	memory organization,	5	CR		
61.	03.04.2017 04.04.2017	parallel I/O ports	5	CR		
63.	05.04.2017 07.04.2017	interrupts and addressing modes of 8051.	5	CR		
65.	10.04.2017	Introduction to PIC microcontrollers	5	CR		

Faculty Name: Sri. V.Ashok Kumar (A-Section), Sri.T.Viswanadham (B-Section), Sri.DVLN.Sastri(C-Section)

CR: CLASS ROOM

OHP: OVERHEAD PROJECTOR

LCD

## Text Books:

1. Advanced Microprocessors and Peripherals – A K RAY and K M Bhurchandi, Tata McGraw-Hill Publications, 2000.
2. Microprocessors and Interfacing – Douglas V Hall, McGraw-Hill.
3. Microprocessors and Microcontrollers – Berry B. Bray, Tata McGraw-Hill Publications.

## Reference Books:

1. Microcontrollers – Ajay V Deshmukh, Tata McGraw Hill publications.
2. Microprocessor 8086 programming and Interfacing – Nagoor kani, RBA publications.

  
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