

No	Information of subject	
1	Unit name:	Microprocessor and Microcontroller
2	Code:	McE 51029
3	Classification:	Engineering Subject
4	Credit value:	3
5	Semester/ Year Offered:	1/5
6	Pre-requisite:	Nul
7	Mode of delivery:	Presentation, Lecture, Discussion,
8	Assessment system and breakdown of marks:	Laboratory, Exam1
	Laboratory	15%
	Exam 1	35%
9	Academic staff teaching unit:	Department of Mechatronics Engineering
10	<p>Course outcome of unit:</p> <p>After completion of this course, students will be able to</p> <ol style="list-style-type: none"> 1. Recognize about the basic structure of microprocessor system 2. Explain about 8085 microprocessor features, pin diagram, architecture and memory interfacing 3. Recognize the set of instructions supported by the 8085 microprocessor and apply these instructions at writing programs 4. Recognize some programming techniques and apply these programming techniques using 8085 assembly language programming 5. Recognize and apply stacks and subroutines in 8085 assembly language programming 6. Recognize and apply I/O and memory interfacing 	
11	<p>Synopsis of unit:</p> <p>The course is designed for undergraduate level of engineering students and two semester's course. This course is designed to cover the key aspects of microprocessor and microcontroller system. This course consists of two parts: 8085 Microprocessor system and PIC18F Microcontroller System. For the first semester course, 8085 microprocessor system has to be studied, and then PIC18F microcontroller system at the second semester. After completion of this course, students will cover the microcontroller and microprocessor programming and interfacing techniques.</p>	
12	<p>Topic:</p> <ol style="list-style-type: none"> 1. Introduction to microprocessor and microcomputer system 2. 8085 Microprocessor 	

	<ul style="list-style-type: none"> 3. 8085 Instruction set and ALP 4. Programming techniques 5. Stacks and subroutines 6. I/O and Memory interface
14	<p>Main references: “<i>Microprocessor and Microcontroller System</i>” (First Edition) by A.P. Godse and Mrs. D. A. Godse “PIC Microcontroller and Embedded Systems” by Muhammad Ali Mazidi, Rolin D. McKinlay, Danny Causey</p>
15	Additional references: NUL