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SEMESTER	SUBJECT	L	T	P	C
	MICROPROCESSORS AND MICROCONTROLLERS	4	0	0	3

Aim	The aim of the subject is to provide the concepts of automated machines and equipment
Scope	1. Study the Architecture of 8085 microprocessor
	2. Learn the design aspects of I/O and Memory Interfacing circuits
	3. Study about communication and bus interfacing.
	4. To introduce commonly used peripheral / interfacing
	5. To develop skill in simple applications development with programming 8085
Outcome	1. Ability to understand and analyse, linear and digital electronic circuits.
	2. To understand and apply computing platform and software for engineering problems.

UNIT I 8085 PROCESSOR 9

Hardware Architecture, pin outs – Functional Building Blocks of Processor – Memory organization – I/O ports and data transfer concepts– Timing Diagram – Interrupts.

UNIT II PROGRAMMING OF 8085 PROCESSOR 9

Instruction -format and addressing modes – Assembly language format – Data transfer, data manipulation& control instructions – Programming: Loop structure with counting & Indexing – Look up table - Subroutine instructions - stack.

UNIT III 80386 MICROPROCESSOR 9

Introduction to 80386 - Memory management unit - Descriptors, selectors, description tables and TSS Real and protected mode - Memory paging - Pentium processor -Special features of the Pentium processor - Branch prediction logic -Superscalar architecture, microprocessors - state of the art.

UNIT IV PIC MICROCONTROLLER 9

Architecture – Memory structure – Register File – Addressing modes – Interrupts – Timers: Modes of operation PIC PERIPHERAL FUNCTIONS AND SPECIAL FEATURES: PWM output – Analog to Digital converter – UART – Watchdog timer – RESET Alternatives – Power Down mode – I2C Bus operation

UNIT V MICRO CONTROLLER PROGRAMMING & APPLICATIONS 9

Data Transfer, Manipulation, Control Algorithms& I/O instructions – Simple programming exercises-key board and display interface – Closed loop control of servo motor- stepper motor control – Washing Machine Control.

TOTAL: 45 PERIODS

TEXT BOOKS
1. Krishna Kant, "Microprocessor and Microcontrollers", Eastern Company Edition, Prentice Hall of India, New Delhi , 2007.
2. R.S. Gaonkar, „Microprocessor Architecture Programming and Application'', with 8085, Wiley Eastern Ltd., New Delhi, 2013.
3. Soumitra Kumar Mandal, Microprocessor & Microcontroller Architecture, Programming & Interfacing using 8085,8086,8051,McGraw Hill Edu,2013.

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