

COURSE CODE	COURSE TITLE	L	T	P	C
1151CS116	MICROPROCESSORS AND MICROCONTROLLERS	3	0	0	3

Course Category: Program Core

A. Preamble :

The Purpose of the course is to provide students with the Knowledge of Microprocessors and Microcontroller. To solve real world problems in an efficient manner, this course also emphasis on architecture, Programming and system design used in various day to day gadgets.

B. Pre-requisite :

Sl. No	Course Code	Course Name
1	1151CS104	Digital Electronics

C. Link to Other Courses:

Sl. No	Course Code	Course Name
1	1156CS601	Minor Project
2	1156CS701	Major Project

D. Course Outcomes:

Upon the successful completion of the course, learners will be able to

CO Nos.	Course Outcomes	Level of learning domain (Based on revised Bloom's)
CO1	Develop an ALP in 8085 microprocessor using the internal organization for the given specification	K3
CO2	Describe the architecture and functional block of 8051 microcontroller	K2
CO3	Develop an embedded C and ALP in 8051 microcontroller using the internal functional blocks for the given specification	K3
CO4	Explain various peripherals devices such as 8255, 8279, 8251, 8253,8259 and 8237	K2
CO5	Explain microcontroller application and basic architecture of PIC,ARM and ATMEGA processors.	K2

E. Correlation of COs with Programme outcomes:

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	M	L	H									
CO2		L	H									
CO3		M			L							H
CO4	M		L	H								
CO5		L	M									

H- High; M-Medium; L-Low

