Department of Mechatronics Engineering

Course Name: Digital Electronics
Class: SE Mechatronics Engineering
Course Code: 217543 (2019 Course)

Course Objectives:

1. To study number systems and develop skills for design and implementation of combinational logic circuits and sequential circuits

2. To understand the functionalities, properties and applicability of Logic Families.

3. To introduce programmable logic devices and ASM chart and synchronous state machines.

4. To basics of microprocessor.

Course Outcomes:

On completion of the course, learner will be able to

CO1: Simplify Boolean Expressions using K Map.

CO2: Design and implement combinational circuits.

CO3: Design and implement sequential circuits.

CO4: Develop simple real-world application using ASM and PLD.

CO5: Choose appropriate logic families IC packages as per the given design specifications.

CO6: Explain organization and architecture of computer system