

AP5111 ELECTRONICS SYSTEM DESIGN LABORATORY I

DETAILED SYLLABUS

OBJECTIVES

- To study of different interfaces
 - To learn asynchronous and clocked synchronous sequential circuits
 - To understand the concept of built in self test and fault diagnosis
1. System design using PIC, MSP430, „51 Microcontroller and 16- bit Microprocessor - 8086.
 2. Study of different interfaces (using embedded microcontroller)
 3. Implementation of Adaptive Filters and multistage multirate system in DSP Processor
 4. Simulation of QMF using Simulation Packages
 5. Analysis of Asynchronous and clocked synchronous sequential circuits
 6. Built in self test and fault diagnosis
 7. Sensor design using simulation tools
 8. Design and analysis of real time signal processing system – Data acquisition and signal processing.