Diploma, Anna Univ UG & PG Courses

Notes   *Available @*
Syllabus
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EE8681 MICROPROCESSORS AND MICROCONTROLLERS LABORATORY

DETAILED SYLLABUS

OBJECTIVES:

- To provide training on programming of microprocessors and microcontrollers and understand the interface requirements.
- To simulate various microprocessors and microcontrollers using KEIL or Equivalent simulator.

LIST OF EXPERIMENTS

1 Simple arithmetic operations: addition / subtraction / multiplication / division.

2 Programming with control instructions:

(i) Ascending / Descending order, Maximum / Minimum of numbers.

(ii) Programs using Rotate instructions.

(iii) Hex / ASCII / BCD code conversions.

3 Interface Experiments: with 8085

(i) A/D Interfacing. & D/A Interfacing.

4 Traffic light controller.

5 I/O Port / Serial communication

6 Programming Practices with Simulators/Emulators/open source

7 Read a key, interface display

8 Demonstration of basic instructions with 8051 Micro controller execution, including:

(i) Conditional jumps & looping

(ii) Calling subroutines.

9 Programming I/O Port and timer of 8051

(i) study on interface with A/D & D/A

(ii) Study on interface with DC & AC motors

10 Application hardware development using embedded processors.