

EMBEDDED DEVELOPMENT WORKSHOP

DAY - 1

THEORY:

1. What is Embedded System?

- 1.1 Introduction to embedded system.
- 1.2 Block diagram overview.
- 1.3 Concepts & application.

2. Microprocessor & Controller

- 2.1 Introduction to processor and controller
- 2.2 Architecture Overview
- 2.3 SFR
- 2.4 Advantages and differences in processor and controller

Practical :

3. ISIS Proteus Training

- 3.1 Selection mode
- 3.2 Components mode
- 3.3 Instrument mode

4. Circuit Practices

- 4.1 Basics AC and DC Circuits.
- 4.2 Motor drive
- 4.3 Led Circuits

DAY – 2

5. PCB Design:

- 5.1 Overview of PCB Board.
- 5.2 Pcb Design using ARES 7.
- 5.3 PCB Design Task.

6. PIC Controller

- 6.1 Introduction to PIC Controller
- 6.2 Features
- 6.3 Advantages Comparison.

7. Programming in PIC controller:

- 7.1 Led Blinking
- 7.2 Lcd Interface
- 7.3 ADC

8. Hardware Training:

- 8.1 Working with Micro Compiler
- 8.2 Program burning in PIC Burner Kit

9. Materials Provided(Cd's will be provided)

- 9.1 ISIS Proteus
- 9.2 ARES PCB Tool
- 9.3 PIC c compiler