# ESHANAV

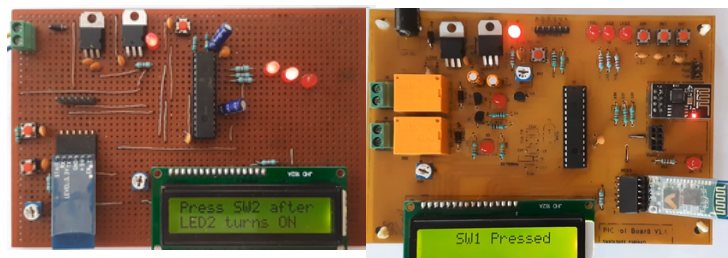**ESHANAV SYSTEMS PRESENTS**

HANDS-ON WORKSHOPS ON

# EMBEDDED SYSTEMS & PCB DESIGN



# EMBEDDED SYSTEMS USING PIC MICROCONTROLLERS (WITH HARDWARE)

- Day 1: Build hardware circuits with soldering on general-purpose PCB
- Day 2 : Code microcontrollers using GPIO (General Purpose Input/Output), External Interrupts, Timers
- Day 3 : LCD Display, ADC (Analog to Digital Conversion), PWM Module, Serial Communication
- Hardware shared in groups of 4 students

**Registration Fee:** ₹1000 per student (includes hardware components)

# EMBEDDED SYSTEM DESIGN USING RTOS (WITH HARDWARE)

- Day 1: Build hardware circuits with soldering on general-purpose PCB
- Day 2 : Code microcontrollers using GPIO (General Purpose Input/Output), External Interrupts, Timers
- Day 3 : LCD Display, ADC (Analog to Digital Conversion), PWM Module, Serial Communication
- Day 4: Learn RTOS Concepts: Creating & Scheduling Tasks, Multitasking,
- Day 5: Semaphores, Mini-project
- Hardware shared in groups of 4 students

**Registration Fee:** ₹1500 per student (includes hardware components)

# EMBEDDED SYSTEMS USING PIC MICROCONTROLLERS (SIMULATION TOOLS)

- Day 1: Basics of PIC Microcontrollers, Software installations, Code microcontrollers using GPIO (General Purpose Input/Output),
- Day 2 : External Interrupts, Timers, LCD Display
- Day 3 :ADC (Analog to Digital Conversion), PWM Module, Serial Communication
- Work fully on simulation – No hardware required

**Registration Fee:** ₹750 per student (includes hardware components)

# ESHANAV

# PCB DESIGN USING KICAD (WITH ETCHING PRACTICE)

- Day 1: Introduction to PCB design, Software Installation, Schematic Entry, Footprint Assignment, NetList Generation
- Day 2: Component Placement, Routing, Design Rule Check, Silkscreen, Gerber Output & Bill of materials
- Day 3: Manual PCB etching of single-layer board, Surface Mount and 2-layer PCB Design Concepts

**Registration Fee:** ₹600 per student

# INTERNSHIP IN EMBEDDED SYSTEMS DESIGN

**Why Join This Internship?**

- Hands-on learning with PIC Microcontrollers
- Design real-world PCBs using KiCAD
- Simulate circuits using SimulIDE or Proteus
- Learn to code, test & build your own prototype
- Complete a mini-project to showcase your skills
- Get an Internship Certificate on successful submission
- Learn your way — Online, Offline, or Hybrid internships with limited seats, tailored to support your academics and strengthen your resume.

**Contact Us for internship opportunities at Eshanav Systems, Udupi Branch office**

# GET IN TOUCH

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