

Professional Skill Development for Electrical Engineers

SHORT COURSES

- 32bit ARM Controllers (Cortex-M series)
- FPGA (Xilinx)
- PLC with HMI (Delta, Fatek, Seimens)
- AVR Microcontrollers
- Android Application Development
- WEB/ PC Application Development

COURSE DURATION: 5 WEEKS, 2 DAYS PER WEEK, 2 Hours PER DAY
(20 Hours for each course)

Group Strength: 8 to 12 Students

Course Fee: Fee per student is Rs. 3000. (Excluding PLC)

Note: discount will be offered for group

Course Contents (Theory/ practical)

- Core Characteristics and Architecture
- Problem Analysis, Algorithm and Programming
- I/O Operations, External Hardware and Interrupts
- LED/ Buttons LCD/ Keypad Interface (Mini Project)
- Stepper Motor Control (Mini Project)
- PWM Generation and DC Motor Speed Control
- ADC and Data Acquisition (Mini Project)
- Timers and RTC Interface (Mini Project)
- UART and Communication with PC (Mini Project)

Learning Outcomes

After successful completion of course students will be able to:

- Understand electronic systems based on above devices
- Debug/ diagnose faults in these systems
- Program above devices/ development boards to automate systems using keypads, LCDs, stepper motors, DC motors, ADC inputs, PWM outputs, I²C and UART Interfaces.

Courses Conducted in Supervision by:

ASST. PROF. ENGR. M. FARHAN KHAN
(16 years of teaching and industrial experience)

Note:

- Low cost development boards (Rs. 1000 to Rs. 3000) with CD and Practical manual are available for experiments and project development.
- Workshops are also conducted on demand of an organization.

STAR ENGINEERING (TRAINING, RESEARCH & DEVELOPMENT UNIT)

D-3, ABDULLAH APARTMENTS, BLOCK-16, GULISTAN-E-JAUHAR, KARACHI

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