

Road Map

Dr. Ahmed M. ElShafee

About the course

Course name, Code	Practical App. In CS II
Pre-requisite	Fundamentals of Programming II
Credit hours	3
Number Sessions	8
Date, time, place	Tuesday, 9:00 ~ 12:00 ,Lab 1117 Thursday, 9:00 ~ 12:00, Lab 1117
Text book	PIC Microcontrollers, Milan Verle, mikroElektronika; 1st edition (2008) <i>Arduino cook book, Michael Margolis, O'reilly, 2nd ed, 2011</i>

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Presentations and materials	www.aelshafee.net

Course Objectives

- This course aims to bridge the gap between the electric/electronics circuits, and programming.

Course outcomes

- Students should be able to design electrical circuitry to the Microcontroller I/O ports in order to interface the processor to external devices.
- Students should be able to write assembly language/ C programs and download the machine code that will provide solutions real-world control problems such as fluid level control, temperature control, and batch processes

TOC

- Applied Electronics and Electric Circuits
- PIC 16F84A programming and interfacing
- Arduino Microcontroller Programming and interfacing

Thanks,..
Lets do this,...