



UNIVERSITI KUALA LUMPUR
MALAYSIAN SPANISH INSTITUTE

(The contents and other related details in this form is used for publication purpose only. Training module will be given to participants upon registration)

Course Title: ARDUINO PROGRAMMING USING MATLAB/Simulink (Target) FOR CONTROL SYSTEM APPLICATION		Course Code : EEA 143
Course Background/Summary : Arduino is one of the best and cheapest embedded microcontroller, but yet powerful tool for automation and control of several engineering applications. This course will introduce and apply the Arduino Mega 2560 in TARGET MODE for control system application such as speed, position, level and temperature control.		
Course Objectives: <ul style="list-style-type: none">• Program Arduino using Target method with MATLAB/Simulink• Download Program to Arduino Mega 2560• Interface Arduino Mega with sensors and actuators• Utilize Arduino MEGA in target mode for Control speed, position, level and temperature		
Target Audience: <ul style="list-style-type: none">• Electricians, Research assistants, Research officer, Researcher, Academicians• Technicians & Engineers• Instructors		
Course duration	:	Min:3 days, Max:5 days
Course Contents	:	
No	TOPICS	
1	Introduction to microcontroller and Arduino Mega 2560	
2	Basic Theory on Control System	
3	Arduino programming data transfer using MATLAB/Simulink	
4	Arduino programming with MATLAB/Simulink in target mode	
COURSE STRUCTURE:		
Practical	:	65 %
Theory	:	35 %

UniKL MSI can also customize existing short courses and develop new courses to meet your personal training needs and requirements. The course duration serves as a guideline for your reference.

Please forward enquiries to Centre for Advancement & Continuing Education (ACE), Universiti Kuala Lumpur (Malaysian Spanish Institute), Kulim Hi-Tech Park, 09000 Kulim, Kedah or via fax to:04-4032539 or email to syazrah@unikl.edu.my or call 04-4035199 / 200 (ext:112 / 185)