



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 MEGA 2560 FOR PNEUMATICS & HYDRAULICS APPLICATION		Course Code :	EEA 145
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 for pneumatics and hydraulics application. This includes basic control, system diversion, and system alternation.			
Course Objectives: <ul style="list-style-type: none">• C Programming of Arduino Mega 2560• Interface Arduino Mega with buttons, sensors and actuators• Utilize Arduino Mega for Pneumatics and Hydraulics application			
Target Audience: <ul style="list-style-type: none">• Electricians, Research assistants, Research officers, Researchers, Academicians• Technicians and Engineers• Instructors			
Course duration:		Min:3 days, Max:5 days	
Course Contents :			
No	TOPICS		
1	Introduction to microcontroller and Arduino		
2	Basic Theory on Penumatics and Hydraulics system		
3	Interfacing of Arduino with sensors and actuators of hydraulics and pneumatics devices		
4	Arduino C programming motor control		
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)