



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: MICROCONTROLLER FOR PNEUMATICS AND HYDRAULICS APPLICATION		Course Code : EEA 165
Course Background/Summary : <p>A microcontroller is one of the main components in any Controller applied in the industry. Complex systems are controlled with the aid of this microcontroller. This course will introduce participants on how to use a PIC microcontroller to build controller for Pneumatics and Hydraulics application. The control application will be inclusive of timer, counter, system alternate, system diversion and etc.</p>		
Course Objectives: <ul style="list-style-type: none">• Construct controller from scratch for pneumatics and hydraulics application.• Control pneumatics and hydraulics using, timer, counter, system alternate and diversion with constructed controller.• Write C code algorithm to control such pneumatics and hydraulics application		
Target Audience: <ul style="list-style-type: none">• Electricians, Research assistant, research officer, Researcher, Academicians• Technicians, Hobbyist• Engineers & Instructors		
Course duration :	Min:3 days, Max:5 days	
Course Contents :		
No	TOPICS	
1	Introduction to Electronics circuit and microcontroller	
2	Matlab for communication	
3	Labview for data transfer and communication	
4	C programming	
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), University 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)