



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 CONTROL SYSTEM		Course Code :	EEA 167
<u>Course Background/Summary :</u> A microcontroller is one of the main components in any controller application in the industry. Complex systems are controlled with the aid of this microcontroller. In a control system, the microcontroller is used as a Digital PID controller for control application purposes. PIC microcontroller is one of the most popular microcontroller nowadays .This course will introduce participants on how to build a Digital PID controller using PIC microcontroller and write C code for PID algorithm for control system purposes such as speed, position, level and temperature control.			
<u>Course Objectives:</u> <ul style="list-style-type: none">• Construct PID controller from scratch• Control speed, position and level system• Write C code control PID algorithm to control such application			
<u>Target Audience:</u> <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 Control System Theory		
2	Introduction to PIC microcontroller		
3	Matlab/Simulink for data transfer and communication with controller		
4	C code programming for PID control algorithm.		
<u>COURSE STRUCTURE:</u>			
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)