



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: FUZZY LOGIC USING PIC MICROCONTROLLER FOR CONTROL SYSTEM APPLICATION		Course Code : EEA 153
Course Background/Summary : Fuzzy Logic has been widely applied in industry and home appliances for several applications from complex system such as an aircraft to washing machine which is less complex system. The flexibility of fuzzy logic makes it popular to be applied in control engineering. This course will introduce participants on how making use of Fuzzy Logic control such as speed, position, level and temperature. PIC microcontroller will be the processing engine for this Fuzzy control algorithm.		
Course Objectives: <ul style="list-style-type: none">• Understand and make use of fuzzy logic to control application such as speed, position, level and temperature.• Utilize MATLAB/Simulink as the processor to process fuzzy control algorithm• Use PIC Microcontroller as Fuzzy processing engine and interface to pass and receive control variable from and to input sensors and actuators.		
Target Audience: <ul style="list-style-type: none">• Electricians, Research assistant, research officer, Researcher, Academicians• Technicians, & Engineers, Instructors		
Course duration :	Min:3 days, Max:5 days	
Course Contents :		
No	TOPICS	
1	Basic knowledge PIC microcontroller	
2	Theory of Fuzzy Logic Control System	
3	Construct a Fuzzy controller circuit and Write C code fuzzy algorithm to a PIC microcontroller.	
4	Control speed, position, level system with aid of system identification and SISO tool.	
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)