



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: DIY DATA ACQUISITION (DAQ) USING PIC MICROCONTROLLER AND COMMUNICATE TO MATLAB OR LABVIEW		Course Code : EEA 148
Course Background/Summary : DAQ is an important device/equipment in research and development. It is used to acquire data from any studied system for further analysis. This course will introduce participants on how to build Data Acquisition Card (DAQ) using PIC Microcontroller from scratch. Upon completion a C code for communicating the DAQ with Matlab/Simulink will be covered and implemented.		
Course Objectives: <ul style="list-style-type: none">• Construct DAQ circuit• Write C code for data transfer and software communication• Communicate DAQ with MATLAB/Simulink or Labview• Testing in reading data from sensors and actuators and read it from MATLAB/Simulink or Labview		
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	Introduction to PIC microcontroller and DAQ	
2	Matlab/Simulink for communication	
3	Labview for data transfer and communication	
4	C code programming for data communication	
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)