



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)

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| Course Title: DIY DIGITAL PID USING PIC MICROCONTROLLER & COMMUNICATION VIA MATLAB/SIMULINK OR LABVIEW | | Course Code : EEA 150 |
| Course Background/Summary : Digital PID is an important instrument in the control system. Without its precise control of any system would be impossible. This course will introduce participants on how to build/construct digital PID from scratch, by using PIC Microcontroller as controller. Participants will also learn to write C code PID control algorithm for control purposes. | | |
| Course Objectives: <ul style="list-style-type: none">• Construct Digital PID circuit• Write C code for the PID control algorithm and test to control speed system• Communicate Digital PID with MATLAB/Simulink | | |
| Target Audience: <ul style="list-style-type: none">• Electricians, Research officer, Research assistant, Researcher, Academicians• Technicians & Engineers• Instructors | | |
| Course duration : | Min: 3 days, Max:5 days | |
| Course Contents : | | |
| No | TOPICS | |
| 1 | Introduction to PID Control system theory | |
| 2 | Introduction to PIC microcontroller | |
| 3 | Construct and Communicate PIC Microcontroller to the sensor and actuator. | |
| 4 | C code programming for the PID control algorithm | |
| 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)