



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: BUILD YOUR OWN DC TODC CONVERTER USING MICROCONTROLLER AND COMMUNICATION VIA MATLAB OR LABVIEW | | Course Code : | EEA 149 |
| Course Background/Summary : DC to DC converter/Chopper is used to control voltage and current of a converter for controlling speed and torque of DC machines. PIC microcontroller will be used as Digital controller for controlling the converter. This course will introduce participants on how to build DC-DC converter and controller using PIC microcontroller from scratch and also to write a control C code algorithm to control the DC-DC converter. | | | |
| Course Objectives: <ul style="list-style-type: none">• Construct a DC-DC converter• Write C code control algorithm to control the converter• Communicate the converter with MATLAB/Simulink to analyze or monitor data | | | |
| 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 DC_DC converter/ Chopper | | |
| 2 | Introduction to PIC microcontroller | | |
| 3 | Construct the converter and interface to a PIC microcontroller | | |
| 4 | C code programming for converter 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)