



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: GENETICS ALGORITHM FOR OPTIMIZATION OF ENGINEERING PROCESS WITH MATLAB/SIMULINK		Course Code : EEA 157
Course Background/Summary : Genetics algorithm is one of the best tools for optimization. This course will introduce participants on how making use of genetic algorithm for optimize the PID gain and torque and current in parallel mode drive of four quadrants DC chopper.		
Course Objectives: <ul style="list-style-type: none">• Use Genetics algorithm to optimize control application such as tuning PID controller• Familiarize with MATLAB/Simulink as processing engine for this Genetics Algorithm		
Target Audience: <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	Basic theory for genetics algorithm	
2	Basic knowledge on Matlab/Simulink and genetics algorithm	
3	Optimize PID controller using a genetics 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), 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)