



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: MECHATRONICS (LEVEL 2)		Course Code : EEA 117 (L2)
Course Background/Summary : Today we are surrounded by automation systems which are combination of mechanical engineering, electronics and software. This course provides the participants an understanding on mechatronics and lay out the foundation for mastery of industrial automation, enables them to commission, operate, adjust and maintain these machines.		
Course Objectives: <ul style="list-style-type: none">• Analyze and test basic mechatronic circuits (pneumatic, electrical, and software)• Download programs and commission a simple PLC control system• Identify and describe the operation of pneumatic, electro-pneumatic, electrical and PLC components and sensors• Interpret technical specifications and data relating to pneumatic, electro-pneumatic, sensor, electrical and PLC components and systems• Troubleshoot basic Mechatronic control systems• Use diagnostic software to assist troubleshooting		
Target Audience: <ul style="list-style-type: none">• Electricians• Technicians• Engineers• Instructors		
Course duration :	Min:3 days, Max:5 days	
Course Contents :		
No	TOPICS	
1	Introduction to mechatronic control systems e.g. FMS	
2	Manipulators In Flexible Cells	
3	Linear Actuators	

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)



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4	Rotary Actuators
5	Air Gripper
6	Vacuum Equipment
7	Sensors
8	Characteristic PLC control
9	Mitsubishi FX Series (GX Developer) PLC Programming
COURSE STRUCTURE:	
Practical :	50 %
Theory :	50 %

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