



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: ROBOTIC & CONTROL SYSTEM (WITH MICROCONTROLLER)		Course Code : EEA 131
<u>Course Background/Summary :</u>		
<p>Robotic systems can be viewed as a subset of Mechatronics that focuses on sophisticated control of moving devices. The aim of this course is to expose participants to the fundamentals of making a robot using microcontroller, feedback sensor/encoder, C programming, and interface/link with motor actuators .</p>		
<u>Course Objectives:</u>		
<ul style="list-style-type: none"> • Define an industrial robot & recognize other robotic devices • Microcontroller PIC as robot brain • Microcontroller interface to sensors and actuator for a robot. • C programming for robot. • PID control algorithm with C programming. 		
<u>Target Audience:</u>		
<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 Robot	
2	Design robotics circuit	

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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3	Microcontroller and interfacing for robotics
4	C Robotic programming with sensors and encoder
5	PID control algorithm for robot control
COURSE STRUCTURE:	
Practical :	30 %
Theory :	70 %

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