



(The contents and other related details in this form is used for publication purpose only. Training module will be given to participants upon registration)

<b>Course Title: INDUSTRIAL ROBOTICS</b>	<b>Course Code : EEA 118</b>
<b><u>Course Background/Summary :</u></b>  Participants will be taught on different types of built-ups of industrial robots, different applications of industrial robots and parts of an industrial robot. This module will help them to study the movement systems of a robot and how to use the system in each case through robot programming.	
<b><u>Course Objectives:</u></b> <ul style="list-style-type: none"><li>• Describe the use of several devices for data entering and management used in programming of robots, handling devices and CIM environment.</li><li>• Explain the operation sequence on an automated system.</li><li>• Identify the code which is being performed at each moment depending on the element in question.</li><li>• Work out robot programs and system management programs.</li><li>• Perform the simulation of programmable systems</li><li>• Transfer robot and management program from a source file on a system.</li><li>• Place tools and devices in accordance with programmed operation sequence and check operation status.</li><li>• Check whether standardized holding devices, or special holding devices enable a correct clamping of the work pieces</li><li>• Perform a dry run to check the operation of the system.</li><li>• Modify parts of the programs that shows deviations during the verification process.</li></ul>	
<b><u>Target Audience:</u></b> <ul style="list-style-type: none"><li>• Industrial workers from operators, technicians to engineers, teaching staffs (vocational &amp; technical teachers)</li><li>• Technicians and maintenance personnel involved in the setup, tuning and troubleshooting of electro- hydraulic proportional and servo systems</li></ul>	
<b>Course Duration :</b>	<b>Min:3 days, Max:5 days</b>

*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](mailto:syazrah@unikl.edu.my) or call 04-4035199 / 200 (ext:112 / 185)*



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<b>Course Contents :</b>		
<b>No</b>	<b>TOPICS</b>	
1.	Introduction to robotics	
2.	Structure and features of industrial robots	
3.	Programming systems of industrial robots	
4.	Introduction to programming	
5.	Instructions in movement control.	
6.	Inputs and outputs	
<b>COURSE STRUCTURE:</b>		
Practical :		60%
Theory / Lab Works :		40%

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