



**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)

<b>Course Title: HUMAN MACHINE INTERFACE (HMI) IN VISUAL BASIC</b>		<b>Course Code</b>	<b>: ICT 112</b>
<b><u>Course Background/Summary :</u></b>  The participants will be exposed to communication and developing interface design for Human Machine Interface (HMI) using Visual Basic. They will be able to design and implement supervision of network automation system and develop communication between Visual Basic and industrial devices such as PLC.			
<b><u>Course Objectives:</u></b> <ul style="list-style-type: none"><li>• Develop and test serial communication program between PC and PLC by using appropriate high level language software like Visual Basic.</li><li>• Design human machine interface (HMI) in a network automation system by using VB in accordance with serial communication protocol.</li><li>• Install, configure and establish master/slave PLC communication by using appropriate materials, equipment, tools and software in accordance with standard regulation protocols</li><li>• Apply VB programming in serial communication between PC and Controllers</li></ul>			
<b><u>Target Audience:</u></b> <ul style="list-style-type: none"><li>• Programmers, Software Engineers, Application Developers</li><li>• Individuals involved in IT Functions</li><li>• Academicians</li></ul>			
<b>Course Duration :</b>		<b>Min:3 days, Max:5 days</b>	
<b>Course Contents :</b>			
<b>No</b>	<b>TOPICS</b>		
1	Introduction to HMI		
2.	Visual Basic <ul style="list-style-type: none"><li>• Introduction</li><li>• Programming Fundamental</li><li>• Visual Basic Control and Properties</li></ul>		

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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	<ul style="list-style-type: none"><li>• Function, Pointers and Array</li><li>• Using Array Controls</li></ul>
3.	HMI Application with Visual Basic <ul style="list-style-type: none"><li>• Introduction to factory Interface Network Service (FINS)</li><li>• FINS Gateway installation &amp; operation</li><li>• Introduction to Component Applet (Compolet)</li><li>• Complete installation and operation</li><li>• Application and Project</li></ul>
4.	Prac. Lab 1 – Timer Prac. Lab 2 – Illustration of Start and Stop Machine Prac. Lab 3 – Pick and Place Station
<b>COURSE STRUCTURE:</b>	
Practical :	40%
Theory / Lab Works :	60%

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