



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: Optical Proximity Sensing Technology: Basic Principles & Applications In Object Detection	Course Code :	EEA 178
<u>Course Background/Summary :</u> This course describes optical proximity sensing principles and technology, as well as the associated specialty fiber types and components required for their system integration. A broad overview of diverse applications is made with a particular emphasis on object detection. Technical personals, trainer and instructor who wish to widen their knowledge of optical proximity sensor technology and application.		
<u>Course Objectives:</u> At the end of this training, the participants will be able to: <ul style="list-style-type: none">• Become familiar with the terminology used to describe the switching performance of optical proximity sensor• Become familiar with the response characteristic of a through beam sensor• Determine which materials can be detected with the sensor• Become familiar with the range of applications and response characteristics of a retro-reflective sensor• Become familiar with the range of application of optical proximity switches with fiber-optic cable.• Become familiar with the setup and function of an optical diffuse light sensor.		
<u>Target Audience:</u> Technical managers, scientists, engineers, technicians and research students who wish to learn about optical-sensing technology and review their implementation and applications for industry uses. The course is also suitable to gain an overview of the field, for marketing and technical personnel wishing to examine prospects in the optical sensing area.		

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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Course Duration :		Min:3 days, Max:5 days
Course Contents :		
No	TOPICS	
1	Sensor terms, multi sensor system, characteristics	
2	Optical proximity sensor – design	
3	Optical proximity sensor – basic circuit diagram	
4	Optical proximity sensor – types and types of reflection	
5	Optical proximity sensor – fibre-optic cable layouts	
6	Practical with applications	
COURSE STRUCTURE:		
Practical :		60%
Theory :		40%

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