



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: POWER ELECTRONICS & DRIVES		Course Code	: EEA 113
Course Background/Summary : The purpose of this course is to provide a comprehensive review on industrial power electronic converters and motor drive. Practical topologies of different types of power electronic converters will be covered, including industrial high-voltage and high-current applications, protection, and cooling. Common industrial motor drives are examined with popular control techniques (PWM) and simplified modeling.			
Course Objectives: <ul style="list-style-type: none">• Analyze three-phase systems (voltage, current, power and power factor)• Understand the concepts of alternating current theory• Explain working and signals of different types of power electronics in different type of switched power converters - rectifier, inverters and choppers			
Target Audience <ul style="list-style-type: none">• Technicians and engineers from different engineering disciplines• Teaching staffs/instructors			
Course Duration		:	Min:3 days, Max:5 days
Course Contents		:	
No	TOPICS		
1	Introduction (power electronics components)		
2	Uncontrolled and controlled rectifiers (single-phase and three-phase rectifiers)		
3	Chopper- switched power supply with different topologies (BUCK, BOOST, CUK etc)		
4	Ac -Ac converters		

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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5	Inverters
6	Drives
COURSE STRUCTURE:	
Practical :	60%
Theory / Lab Works :	40%

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