



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: INTRODUCTION TO ELECTRIC VEHICLE		Course Code : EEA 141
<u>Course Background/Summary :</u> This course will deal primarily with electric vehicles used for personal transportation where the internal combustion engine is replaced by a battery and electric motor drive. The module will begin with an introduction to electric drive vehicles and the principle of power electronics followed by a thorough coverage of various converters. The unique aspects of power converters in EVs, HEVs, and PHEVs are addressed, including current vehicle and battery management system.		
<u>Course Objectives:</u> <ul style="list-style-type: none">• Describe the fundamental concepts of EVs• Identify the main components/parts of EVs• Develop and test the converter circuit• Analysis the vehicle parameters and performance of EV		
Target Audience: Electricians, Technicians, Engineers, Instructors		
Course Duration :	Min:3 days, Max:5 days	
Course Contents :		
No	TOPICS	
1	Safety in handling the Electric Vehicles (EV)	
2	What are EVs	
3	EV drive train	
4	Power application in EV	

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	Electric Machine and Drive used in EV
6	Battery Management System
7	Modeling and Simulation of EV
8	Conversion of EV
COURSE STRUCTURE:	
Practical :	60 %
Theory :	40 %

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