



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: SOLIDWORKS MOTION AND FLUID FLOW SIMULATION		Course Code : MEC 114
<u>Course Background/Summary :</u> Computational Fluid Dynamic (CFD) offers several advantages in industrial application especially in design and process control stages. Understanding the fluid flow behavior is compulsory for wide area of application such as automotive design, chemical plant process, injection moulding, Oil & Gas industry and many others. This course is designed to provide a practical introduction for technology practitioners on understanding the fluid flow and heat transfer processes through a CFD. This approach will significantly reduce the experimental cost and time because the system is numerically modeled and circumstances can be simulated before the actual test.		
<u>Course Objectives:</u> At the end of this training, the participants will be able to/have: <ul style="list-style-type: none">• To develop skills in analyzing CFD model for external and internal fluid flow.• To understand and interpret the results of numerical simulation.• To identify proper tools to do motion simulation and forces• To know the post process and flexible joints to run simulation		
Target Audience: <ul style="list-style-type: none">• Management Level/ Supervisory Level/ Supporting Staffs		
Course Duration :	Min:4 days	
Course Contents :		

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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No	TOPICS
1	Introduction to Computational Fluid Dynamic
2	CFD Pre-processing (Meshing)
3	CFD solver setup
4	CFD post processing (Result Interpretation)
5	Practical project (Internal flow & External flow)
6	Practical project (Heat Transfer)
7	Introduction to Simulation Motion
8	Setting up Motion and Forces
9	Post Processing
10	Contact, springs and dampers
11	Flexible joint
COURSE STRUCTURE:	
Theory :	10 %
Practical :	90

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