

LEBANESE UNIVERSITY		Program Course				الجامعة اللبنانية			
Faculty of Technology		Master				كلية التكنولوجيا			
		Mechatronics and Energy Engineering							
M1	Semester 1				Semester 2				
	Code	Course	ECTS	CM+TD+TP	Code	Course	Crédits	CM+TD+TP	
	MS1ACEL	Electric Actuators	4	30	MS2COEL	Electromechanical Converter	4	30	
	MS1ANSC	Scientific English	3	30	MS2ENRA	Advanced renewable Energy	4	30	
	MS1AUSU	Automation and Supervision	4	30	MS2GQEE	Electrical Energy Quality and Management	4	30	
	MS1ELAV	Advanced Electronics	4	30	MS2MARK	Marketing	3	30	
	MS1GEPR	Project Management	3	30	MS2MICE	Embedded Micro-Controllers	4	30	
	MS1MOSM	Modeling of Mechanical System	4	30	MS2REBI	Bibliographic Research	4	45	
	MS1PRSY	Programming System	4	30	MS2ELFS	Finite Element and Simulation *	4	30	
	MS1TRSI	Signal Processing	4	30	MS2INCA	Instrumentation and Sensors *	4	30	
				MS2RETR	Electric Network and Transformers *	4	30		
				MS2SYEE	Energy Systems and Environment *	4	30		
	Total	8	30	240	Total	8	31	255	
M2	Semester 3				Semester 4				
	Code	Course	Crédits	CM+TD+TP	Code	Course	Crédits	CM+TD+TP	
	MS3AQEC	Quality Assurance and Eco-Design	4	30	MS4SEMI	seminars	8	60	
	MS3COAV	Advanced Automation	5	45	MS4STPR	Internship - Project (≈250h/student - project)	22	250	
	MS3COMP	Accounting	3	30					
	MS3ECEI	Business and Industrial Economics	4	30					
	MS3OPEN	Optimization and Energy	5	45					
	MS3EENC	Electronics for non-conventional energies *	4	30					
	MS3ENBA	Energy in Buildings *	4	30					
	MS3MEFM	Flexible Mechanics and Materials *	4	30					
MS3SYTM	Thermal and Multiphysics Systems *	4	30						
	Total	7	29	240	Total	2	30	310	
* : Elective Courses - ECTS : European Credit Transfert and accumulation System - CM : Lecture - TD : Exercises - TP : LAB Sessions							Total ECTS:	120	
							Total Hours:	1045	