



Note: The student should complete 4 weeks of Summer Internships to fulfill the requirements of the Bachelor's degree																
Structured SWL (hr/w) type	CL	Class Lecture	Module type		B	Basic learning activities		SWL:		Student Workload						
	Lab	Laboratory			C	Core learning activity		SSWL:		Structured SWL						
	Pr	Practical Training			S	Support or related learning activity		USSWL:		Unstructured SWL						
	Tut	Tutorial			E	Elective learning activity										
	Lect	Online lecture														
	Semn	Seminar	Note: Columns O, Q and R are programmed, protected and should not be edited													



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Level	Semester	No.	Module Code	Module Name in English	اسم المادة الدراسية	Language	SSWL (hr/w)						Exam hr/sem	SSWL hr/sem	USSWL hr/sem	SWL hr/sem	ECTS	Module Type	Prerequisite Module(s) Code													
							CL (hr/w)	Lect (hr/w)	Lab (hr/w)	Pr (hr/w)	Tut (hr/w)	Semn (hr/w)																				
Three	Five	1	PM 300	Mechanical Design	تصميم ميكانيكي	English	2		2				3	63	87	150	6.00	C														
		2	PM 301	Engineering Analysis	تحليلات هندسية	English	3						3	48	52	100	4.00	B														
		3	PM 302	Heat Transfer	انتقال حرارة	English	4		4				3	123	77	200	8.00	C														
		4	RE 300	Biofuels	وقود حيوي	English	2		2				3	63	87	150	6.00	C														
		5	RE 301	Renewable Energy	طاقة متجددة	English	2		2				3	63	37	100	4.00	C														
		6	NTU 201	English Language	لغة انكليزية	English	2						3	33	17	50	2.00	S														
							Total	15.00	0.00	10.00	0.00	0.00	0.00	18.00	393.00	357.00	750.00	30.00														
	Six	Semester	No.	Module Code	Module Name in English	اسم المادة الدراسية	Language	SSWL (hr/w)						Exam hr/sem	SSWL hr/sem	USSWL hr/sem	SWL hr/sem	ECTS	Module Type	Prerequisite Module(s) Code												
								CL (hr/w)	Lect (hr/w)	Lab (hr/w)	Pr (hr/w)	Tut (hr/w)	Semn (hr/w)																			
								1	RE 302	Photovoltaic Energy	الطاقة الكهروضوئية	English	4									4				3	123	77	200	8.00	C	
								2	RE 303	Gas dynamics	ديناميك الغازات	English	2									2				3	63	87	150	6.00	C	
								3	PM 303	Engineering Computer Applications	تطبيقات حاسوبية هندسية	English										3				3	48	52	100	4.00	B	
								4	PM 304	Numerical Analysis	تحليلات عددية	English	3													3	48	52	100	4.00	B	
5		RM 305	Theory of Machines and Vibrations	نظرية مكائن و اهتزازات	English	4		4				3	123	77	200	8.00	C															
					Total	13.00	0.00	13.00	0.00	0.00	0.00	15.00	405.00	345.00	750.00	30.00																
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	Lect Sem	Online lecture Seminar				Note: Columns O, Q and R are progmaed, protected and should not be edited																										



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							CL (hr/w)	Lect (hr/w)	Lab (hr/w)	Pr (hr/w)	Tut (hr/w)	Semn (hr/w)								
Four	Seven	1	PM 400	Thermal Power Plants	محطات توليد الطاقة الحرارية	English	4		4				3	123	77	200	8.00	C		
		3	RE 400	Solar Energy	طاقة شمسية	English	3		2				3	78	122	200	8.00	C		
		4	PM 401	Engineering Measurement systems	أنظمة القياسات الهندسية	English	2		2				3	63	87	150	6.00	B		
		5	PM 402	Methodology of Scientific Research	منهج البحث العلمي	English	2				2	2	32	68	100	4.00	S			
		6	PM 403	Industrial Engineering Management	إدارة هندسية صناعية	English	2						3	33	67	100	4.00	B		
							Total	13.0	0.0	8.0	0.0	0.0	2.0	14.0	329.0	421.0	750.0	30.0		
	Eight	Semester	No.	Module Code	Module Name in English	اسم المادة الدراسية	Language	SSWL (hr/w)						Exam hr/sem	SSWL hr/sem	USSWL hr/sem	SWL hr/sem	ECTS	Module Type	Prerequisite Module(s) Code
		CL (hr/w)	Lect (hr/w)	Lab (hr/w)	Pr (hr/w)	Tut (hr/w)	Semn (hr/w)													
		Eight	1	RE 401	Thermal Systems Design	تصميم الانظمة الحرارية	English	3						3	48	87	150	6.00	C	
			2	RE 402	Combustion and Pollution Engineering	هندسة الاحتراق و التلوث	English	4		4				3	123	77	200	8.00	C	
			4	PM 404	Automatic Control systems	أنظمة السيطرة الذاتية	English	2		2				3	63	87	150	6.00	B	
			5	PM 405	Computer Aided Design	التصميم بالحاسوب	English	0		3				3	48	52	100	4.00	B	
6			PM 406	Project	مشروع	English	0			4			2	62	88	150	6.00	C		
					Total	9.0	0.0	9.0	4.0	0.0	0.0	14.0	344.0	391.0	750.0	30.0				

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