

		8	ATU212	Arabic languag	اللغة العربية	Arabic	1						3	18	32	50	2.00	B											
						Total	19	0	6	0	6	0	24	489	261	750	30.00												
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											
	Five	1	ATU12051	Steam Power Plant	محطات بخارية	English	CL (hr/w)	Lect (hr/w)	Lab (hr/w)	Pr (hr/w)	Tut (hr/w)	Semn (hr/w)																	
		2	ATU12052	Heat Transfer- conduction	انتقال الحرارة (التوصيل)	English	4		1	1	1		3	93	42	150	6.00	C											
		3	ATU12053	Numerical Analyses	التحليلات العددية	English	2			1	1		3	63	62	125	5.00	B											
		4	ATU12054	Gas Dynamics	ديناميك الغاز	English	2			1	1		3	63	62	125	5.00	C											
		5	ATU12055	Mechanical Vibrations	اهتزازات	English	2			1	1		3	63	62	125	5.00	B											
		6	ATU12056	Professional Ethics	اخلاقيات	English	2						3	33	42	75	3.00	S											
					Total	16	0	2	4	5	0	18	423	270	750	30.00													
UGIII	Six	1	ATU12061	Control Engineering Fundament	أنظمة سيطرة	English	CL (hr/w)	Lect (hr/w)	Lab (hr/w)	Pr (hr/w)	Tut (hr/w)	Semn (hr/w)	Exam hr/sem	SSWL hr/sem	USSWL hr/sem	SWL hr/sem	ECTS	Module Type	Prerequisite Module(s) Code										
		2	ATU12062	Vehicle Parts Design	تصميم ميكانيكي	English	5				2		3	108	42	150	6.00	S											
		3	ATU12063	Heat Transfer- convection	انتقال الحرارة (الحمل)	English	4		1		1		3	93	57	150	6.00	C											
		4	ATU12064	Eng. & Numerical Analyses	التحليلات العددية والتطبيقات الهندسية	English	2			1	1		3	63	62	125	5.00	B											
		5	ATU12065	Hydraulic and Turbomachinery :	أنظمة هيدروليكية ومحركات توربينية	English	2		1		1		3	63	37	100	4.00	C											
		6	ATU12066	Theory of Machines	نظرية مكائن	English	2		1				3	48	52	100	4.00	C											
					Total	19	0	4	1	5	0	18	453	297	750	30.00													
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											
	Seven	1	ATU12071	Computational Fluid Dynamics	ديناميكا الموائع المحوسبة	English	CL (hr/w)	Lect (hr/w)	Lab (hr/w)	Pr (hr/w)	Tut (hr/w)	Semn (hr/w)																	
		2	ATU12072	Refrigeration systems	منظومات تجميد	English	5		1		1		3	108	92	200	8.00	C											
		3	ATU12073	Energy Resources and Conserv	موارد الطاقة والحفاظ عليها	English	1	1		1			3	48	52	100	4.00	C											
		4	ATU12074	systems design	تصميم منظومات	English	2	1					3	48	52	100	4.00	C											
		5	ATU12075	Advanced Control Systems	أنظمة سيطرة متقدمة	English	5		1		1		3	108	42	150	6.00	C											
		6	ATU12076	CAM (computer Aided manufac	التصنيع المعزز بالحاسوب	English	2		2				3	63	62	125	5.00	S											
					Total	17	2	5	1	2	0	18	423	327	750	30													
UGIV	Eight	1	ATU12081	Air-Conditioning systems	منظومات تكييف الهواء	English	CL (hr/w)	Lect (hr/w)	Lab (hr/w)	Pr (hr/w)	Tut (hr/w)	Semn (hr/w)	Exam hr/sem	SSWL hr/sem	USSWL hr/sem	SWL hr/sem	ECTS	Module Type	Prerequisite Module(s) Code										
		2	ATU12082	Conventional and Renewable pc	محطات الطاقة التقليدية والمتجددة	English	3	1		1	1		3	93	57	150	6.00	C											
		3	ATU12083	Equipment Technology	تكنولوجيا معدات	English	3		1		1		3	78	72	150	6.00	S											
		4	ATU12084	Industrial Engineering	الهندسة الصناعية	English	2		1				3	48	27	75	3.00	S											
		5	ATU12085	Computational Modelling	النمذجة الحسابية	English	1	1		1			3	48	52	100	4.00	S											
		6	ATU12086	Final Project	مشروع تخرج	English				4			3	63	12	75	3.00	C											
					Total	14	2	3	6	3	0	18	438	312	750	30													
Total																		129	4	37	17	39	0	156	3543	2400	6000	240.0	Must be 240 ECTS
Note: The student should complete 4 weeks of Summer Internships to fulfil 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	Suport or related learning activity				USSWL: Unstructured SWL																	
	Tut	Tutorial					E	Elective learning activity																					
	Lect	Online lecture																											

