

Energy Engineering (Technician Degree - 72 Credit Hours)

Classification	Credit Hours		
	Compulsory	Elective	Total
University Requirements	12	-	12
Program Requirements	41	-	41
Specialization Requirements	13	-	13
Placement in Industry Requirements	6	-	6
Total =	72	-	72

A. University Requirements: (12 Credit Hours)

Depending on the results of the English language Placement Test

Course No.	Course Title	Cr. Hr.	Lecture	Lab.	Prerequisite
10301099	Foundation English Pre-Intermediate Intensive + Lab	4	8	1	Placement Test <30

Course No.	Course Title	Cr. Hr.	Lecture	Lab.	Prerequisite
10301100	Foundation English Intermediate Intensive + Lab	4	8	1	Placement Test 30-42 or 10301099
10303101	Soft Skills I	2	0	2	
10302191	Science & Society Seminar I: Arab Contributions to Science and Arts	1	0	1	
	STEM Lab I	1	0	1	
	STEM Lab II	1	0	1	-
	Workshop I	2	0	2	
	Workshop II	1	0	1	-
	Total	12			

B. Program Requirements: (41 Credit Hours)

Course No.	Course Title	Cr. Hr.	Theo. Cr. Hrs	Prac. Cr. Hrs.	Prerequisite
	Functional Math	3	3	0	
	Functional Physics	3	3	0	
	Fundamentals of Computing	4	3	1	
	STEM Lab1	1	0	1	
	STEM Lab2	1	0	1	
	HVAC workshop	1	0	1	
	Electric Machines Workshop	1	0	1	
	Energy Management Workshop	1	0	1	
	Advanced Workshop	1	0	1	
	Engineering Drawing	1	0	1	
	Engineering Math's	4	3	1	
	Engineering Design	4	3	1	
	Engineering Science	4	3	1	
	Fundamentals of Thermodynamics and Heat Engines	4	3	1	
	Electrical and Electronic Principles	4	3	1	
	Managing a Professional Engineering (Pearson-set)	4	3	1	
	Total	41			

C. Specialist Requirements (12 Credit Hours)

Course No.	Course Title	Cr. Hr.	Theo. Cr. Hrs	Prac. Cr. Hrs.	Prerequisite
	Renewable Energy	4	3	1	
	Instrumentation and Control Systems	4	3	1	
	Solar Energy Lab	2		2	
	Electricomechincal Maintenance Lab	1		1	
	Wind Energy Lab	1		1	
	Power Systems and Electronics Lab	1		1	
	Total	13			

Placement in Industry Requirements (6 Credit Hours)

Course No.	Course Title	Cr. Hr.	Theo. Cr. Hrs	Prac. Cr. Hrs.	Prerequisite
	Practical Training	6	0	6	
	Total	6			