

Energy Engineering (Technical Degree -132 Credit Hours)

Classification	Credit Hours		
	Compulsory	Elective	Total
University Requirements	20	02	22
Program Requirements	41	-	41
Specialization Requirements	51	-	51
Placement in Industry Requirements	18	-	18
Total =	130	02	132

English language Prerequisites:

Depending on the results of the English language Placement Test

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

B. University Requirements: 22 Credit Hours (Mandatory: 20, Elective: 2)

Mandatory: 20 Credit hours

Course No.	Course Title	Cr. Hr.	Lecture	Lab.	Prerequisite
10301100	Foundation English Intermediate Intensive + Lab	4	8	1	Placement Test 30-42 or 10301099
OR 10301110	Foundation English Intermediate Intensive + Lab				Placement Test 43-58
10301120	English Intermediate + Lab	3	4	1	Placement Test 10301100
OR 10301130	English Upper-Intermediate + Lab	3			Placement Test 59-66 or 10301110 / 10301120
10303101	Soft Skills I	2	0	2	-
10303102	Soft Skills II	2	0	2	10301101
10303202	Entrepreneurship Boot Camp	6	3	3	-
	Total	20			

Electives: 2 Credit hours

Course No.	Course Title	Cr. Hr.	Lecture	Lab.	Prerequisite
10302191	Science & Society Seminar I: Arab Contributions to Science and Arts	1	0	1	-
10303199	Science & Society Seminar II: Philosophy of Science	1	0	1	-
10303196	Art Appreciation and Techniques	1	0	1	-
	Strategies for Industry Competitiveness: Tools & Techniques	1	0	1	10301101
	Rights and responsibilities	1	1	0	
	Civil & Professional Culture	1	1	0	
10303201	Leadership Camp *	1	1	1	10301101
	Total	2			

* The course includes a 10-day intensive training boot camp held off-campus.

C. Program Requirements: (41 Credit Hours)

Course No.	Course Title	Cr. Hr.	Lecture/ week	Lab./ week	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	

	Workshop 1	2	0	2	
	Workshop 2	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			

D. Specialist Requirements (51 Credit Hours)

Course No.	Course Title	Cr. Hr.	Lecture/ week	Lab./ week	Prerequisite
	Operations and Plant Management	4	3	1	
	Electrical Machines	4	3	1	
	Professional Engineering Management (Pearson-set)	4	3	1	
	Further Mathematics	4	3	1	
	Lean Manufacturing	4	3	1	
	Renewable Energy	4	3	1	
	Fluid Mechanics	4	3	1	
	Thermofluids	4	3	1	
	Electronic Circuits and Devices	4	3	1	
	Instrumentation and Control Systems	4	3	1	
	Solar Energy Lab	1		1	
	Wind Energy Lab	1		1	
	sustainability	1	1		
	Supervised Group Project	8	8	0	
	Total	51			

Placement in Industry Requirements (18 Credit Hours)

Course No.	Course Title	Cr. Hr.	Lecture/ week	Lab./ week	Prerequisite
TEE 399	Practical Training	18	0	40	
	Total	18			