



Student Name: _____
Student No.: _____
Academic Advisor: _____

Second: Faculty Requirements: (27) Cr. Hr.

Course No.	Course Title	Cr.Hr.	Prerequisite
216111	Calculus (1)	3	---
250102	Calculus (2)	3	216111
216131	General Physics (1)	3	---
216132	General Physics (2)	3	216131
216141	General Chemistry (1)	3	---
660131	Manual Engineering Drawing	1	---
660132	Computer Engineering Drawing	1	660131
620171	Engineering Workshop (1)	1	---
610263	Programming Language	3	750099
640253	Engineering Skills	3	130108
610550	Entrepreneurship	3	640253

First: University Requirements (27) Cr.Hr.

A. First Field: University Compulsory Requirements: (18) Cr.Hr.

Course No.	Course Title	Cr.Hr.	Prerequisite
111100	Military Science	3	---
116101	National Education	3	---
116103	Communication and Contact Skills (Arabic Language)	3	114099
116107	Communication and Contact Skills (English Language 1)	3	130099
116108	Communication and Contact Skills (English Language 2)	3	116107
116110	Entrepreneurship and Innovation	1	---
116102	Leadership and Social Responsibility	1	---
116104	Life Skills	1	---
116109	Voluntary Community Service	0	---

B. University Elective Courses (9) Cr.Hr.

The student studies 9 credit hours from the table below:

Course No.	Course Title	Cr.Hr.	Prerequisite
116105	Thinking Skills	3	---
116133	Human Vision & Civilization	3	---
116111	Language Skills (1)	3	---
116112	Language Skills (2)	3	---
116113	Development & Environment	3	---
116114	Introduction to Project Management	3	---
116140	Human Rights	3	---
116143	Legal Culture	3	---
116106	Economic Culture	3	---
216102	Digital Culture	3	---
216102	Data Analysis Skills	3	---
216105	Health Culture	3	---
116144	Introduction to ecology and sociology	3	---

Notes: -

All students must take level examinations in Arabic Language, English language and Computer skills. Student who fails to pass in any examinations (less than 50 %) must successfully pass the remedial course which He / She did not pass.

Codes used in Curriculum:

- (610) Electrical Eng. (620) Mechanical Eng.
- (611) Renewable Energy Eng. (615) Alternative Energy Technology
- (630) Computer Eng. (640) Mechatronics Eng.
- (650) Communications & Electronics Eng. (660) Architectural Eng.
- (670) Civil Eng.

Third: Department Requirements (106) Cr.Hr.

A. Compulsory Requirements: (80) Cr.Hr.

Course No.	Course Title	Cr.Hr.	Prerequisite
610218	Electrical Circuits	3	216132
610216	Electrical Circuits Lab.	1	610218(*)
620213	Solid Mechanics	3	620211
620434	Machine Design (1)	3	620213
620211	Statics	3	250102+216131
620212	Dynamics	3	620211
650242	Electronics (1)	3	610218
610332	Instruments and Measurements	3	650242
610310	Electrical Machines	3	610218
620320	Fluid Mechanics (1)	3	620212+650260
620429	Fluid Mechanics Lab.	1	620330(*)
620323	Thermodynamics (1)	3	216132+250102
620420	Heat transfer (1)	3	620323+650260
620427	Thermal Lab	1	620420(*)
620373	Properties of Engineering Materials	3	620320

B. Compulsory Support Requirements: (17) Cr. Hr.

Course No.	Course Title	Cr.Hr.	Prerequisite
611341	Introduction to Renewable Energy	3	216132
610414	Automatic Control	3	610332+650260
611430	Electrical Power System	3	610310
611312	Energy Economics and Management	3	611341
611411	Energy Legislations	3	611312
611421	Solar Thermal Energy	3	611341+620420
611422	Photovoltaic Energy System	3	611341+650242
611440	Engineering Project (1)	1	(100) Cr.Hr
611511	Environmental Impact of energy	3	611312
611531	Wind Energy Systems	3	611341+620373
611526	Solar Energy Lab.	1	611421(*)+611427(*)
611536	Wind Energy Lab.	1	611531(*)
610530	Power Electronics	3	650242
611533	Energy Storage Systems and Fuel Cells	3	611341+216141
611540	Engineering Project (2)	2	611499+611440
611499	Engineering Training (**)	3	(115) Cr.Hr

C. Elective Requirements: (9) Cr. Hr.

Course No.	Course Title	Cr.Hr.	Prerequisite
611541	Bioenergy Systems	3	611341
611542	Geothermal Energy	3	611341+620420
611543	Hydraulic and Waves Energy	3	611341+620320
611544	Special Topics in Renewable Energy	3	Dept. Approval
611546	Smart Grids	3	611430
640329	Modeling and Simulation	3	610262+611301

(*) Concurrent
(**) Seven weeks (280 working hours) for training after completing (115) Gr.Hr.



Handwritten signatures and dates: 6/10/2022, 6/10/2022, 6/10/2022