



Approved on Feb. 25th 2020

First: University Requirements (27) Cr.H.
A. First Field: University Compulsory Requirements: (15) Cr.H.

Course No.	Course Title	Cr.H.	Prerequisite
114101	Arabic Language Skills (1)	3	114099
111100	Military Science	3	---
130101	English Language Skills (1)	3	130099
130102	English Language Skills (2)	3	130101
111101	National Education	3	---
111000	Student Community Service	0	---

B. University Elective Courses (12) Cr.H.
The student studies 12 credit hours from the table below:

Course No.	Course Title	Cr.Hr.	Prerequisite
140111	Language Skills (1)	3	---
140112	Language skills (2)	3	---
111133	Human Vision & Civilization (1)	3	---
420143	Legal Culture	3	---
420140	Human Rights	3	---
330111	Introduction to Project Management	3	---
731102	Social Networking Skills	3	---
910102	Health Education	3	---
780101	Connectivity&Communications Skills	3	---
610230	Entrepreneurship and Creativity	3	---
240152	Environmental Culture	3	---
111112	Introduction to Psychology	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.

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

Course No.	Course Title	Cr.H.	Prerequisite
250101	Calculus (1)	3	---
250102	Calculus (2)	3	250101
211101	General Physics (1)	3	---
211102	General Physics (2)	3	211101
212101	General Chemistry (1)	3	---
660131	Manual Engineering Drawing	1	---
660132	Computer Engineering Drawing	1	660131
620171	Engineering Workshop (1)	1	660132
630263	Programming Language	3	---
640253	Engineering Skills	3	130102
610550	Entrepreneurship	3	640253

Third: Department Requirements (106) Cr.H.

A. Compulsory Requirements: (82) Cr.H.

Course No.	Course Title	Cr.H.	Prerequisite
620172	Engineering Workshop (2)	1	620171
212102	General Chemistry Lab. (1)	1	212101
610211	Electrical Circuits (1)	3	211102
610216	Electrical Circuits Lab.	1	610211(*)
620213	Solid Mechanics	3	620211
620434	Machine Design (1)	3	620213
620211	Statics	3	250102+211101
620212	Dynamics	3	620211
650242	Electronics (1)	3	610216
610332	Instrumentation& Measurement	3	211102
620320	Fluid Mechanics (1)	3	620212+650260
620429	Fluid Mechanics Lab.	1	620320(*)
620323	Thermodynamics (1)	3	211102+250102
620420	Heat transfer (1)	3	620323+650260
620427	Thermal Lab.	1	620420(*)
620373	Properties of Engineering Materials	3	620429

B. Compulsory Support Requirements: (15) Cr. Hr.

Course No.	Course Title	Cr.H.	Prerequisite
610414	Automatic Control	3	610332+650260
611311	Energy Conversion and efficiency	3	620420
611341	Introduction to Renewable Energy	3	211102
611312	Energy Economics and Management	3	611311
611411	Energy Legislations	3	611311
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
611521	Solar Thermal Energy Technology	3	611421
611531	Wind Energy Systems	3	611341 +620373
611532	Design of Wind Energy Systems	3	611531
611526	Solar Energy Lab.	1	(*)611421+611422(*)
611536	Wind Energy Lab.	1	611531(*)
610530	Power Electronics	3	650242
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.H.	Prerequisite
611541	Bioenergy Systems	3	611341
611545	Green Building Design	3	611411
611543	Hydraulic and Waves Energy	3	611341+620320
630522	Modeling and Simulation	3	630262+611301
611542	Geothermal Energy	3	611341 +620420
611544	Special Topics in Renewable Energy	3	Dept. Approval

(*) Concurrent

16.09.2020