



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
615211	Principles of Electrical Circuits	2	211102
615212	Principles of Electronic Circuits	2	615211
615311	Sensors and measurements tools	2	615212
615312	Automatic Control Systems	2	615311
615313	Electrical Machines	2	615211
615314	Electrical Power System	2	615313
615221	Statics	2	211101+250102
615222	Dynamics	2	615221
615223	Fluid Mechanics	2	250102+615222
615224	Thermodynamics	2	211102+250102
615261	Fluid and Thermal Lab.	-	615223+615224
615321	Heat transfer	2	615224
615322	Strength of Materials	2	615221
615331	Internal and External Combustion	2	615321
615332	Energy Conversion	2	615321
615333	Power Plant Station	2	615314

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

Course No.	Course Title	Cr.H.	Prerequisite
615341	Solar Thermal Energy	2	615321
615342	Photovoltaic Energy System	2	615212
615431	Energy Economics and Management	2	615332
615432	Traditional Energy Resources	3	615332
615433	Traditional Energy Constraints	2	615432
615462	Power System Simulation and Modeling Lab.	-	615342
615434	Environmental Pollution	2	615331
615441	Nuclear Energy	2	615432
615442	Oil Shale	2	615432
615463	Alternative Energy Workshop (1)	-	615341+615342(*)
615444	Wind Energy	2	615224+615313
615464	Alternative Energy Workshop (2)	-	615444(*)
615445	Hydraulic and Geothermal Energy	2	615223+615321
615446	Bioenergy Systems and Waste Management	2	615432
615447	Energy Conservation and Saving	2	615332
615448	Other Renewable Energy Recourses	2	Dept. Approv
615481	Technology Project (1)	1	90 CHrs
615482	Technology Project (2)	2	615481
615480	Training	-	90 CHrs

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

Course No.	Course Title	Cr.H.	Prerequisite
615251	Reading and Drawing Sketches	2	660132
615351	Occupational safety	3	615251
615352	Materials Science	3	615322

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16.09.2020

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