



First: University Requirements (27) Cr. Hr.
A. First Field: University Compulsory Requirements: (18) Cr. Hr.

Course No.	Course Title	Cr.Hrs	Prerequisite	Kind of Learning
115001	Military Science *	3	---	ONLINE
116101	National Education	3	---	ONLINE
116102	Entrepreneurship, Innovation, and Leadership Skills	3	---	ONLINE
116103	Communication and Contact Skills (Arabic Language)	3	116099	Physical
116107	Communication and Contact Skills (English Language 1)	3	116098	Physical
116108	Communication and Contact Skills (English Language 2)	3	116107	Physical
116109	Voluntary Community Service	0	---	ONLINE

* Compulsory for Jordanian Students
B. University Elective Courses (9) Cr. Hr.

The student studies 9 credit hours from the table below:

Course No.	Course Title	Cr. Hr.	Prerequisite	Kind of Learning
116105	Thinking Skills	3	---	Blended
116106	Economic Culture	3	---	Blended
116111	Language Skills (1) (European or Eastern languages)	3	---	Blended
116112	Language Skills (2) (European or Eastern languages)	3	116111	Blended
116114	Introduction to Project Management	3	---	Blended
116133	Human Vision & Civilization 1	3	---	Blended
116140	Human Rights	3	---	Blended
116143	Legal Culture	3	---	Blended
216102	Data Analysis Skills	3	---	Blended
216104	Digital Culture	3	---	Blended
216105	Health Culture	3	---	Blended

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.
- (611) Renewable Energy Eng.
- (640) Mechatronics Eng.
- (620) Mechanical Eng.
- (615) Alternative Energy Technology
- (650) Communications & Electronics Eng.
- (670) Civil Eng.

Second: Faculty Requirements: (24) Cr. Hr.

Course No.	Course Title	Cr.Hr.	Prerequisite	Kind of Learning
216111	Calculus (1)	3	---	Physical
250102	Calculus (2)	3	216111	Physical
216131	General Physics (1)	3	---	Physical
216132	General Physics (2)	3	216131	Blended
620130	Manual Engineering Drawing	1	---	Physical
620132	Computer Engineering Drawing	1	620130	Physical
620171	Engineering Workshop (1)	1	---	Physical
610253	Programming Language	3	216099	Blended
640253	Engineering Skills	3	116108	ONLINE
610550	Entrepreneurship	3	640253	ONLINE

Third: Department Requirements (109) Cr.Hrs.

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

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

B. Compulsory Support Requirements: (20) Cr. Hr.

Course No.	Course Title	Cr.Hr.	Prerequisite	Kind of Learning
216141	General Chemistry (1)	3	---	Physical
216143	General Chemistry Lab	1	216141	Physical
250202	Calculus (3)	3	250102	Physical
250205	Linear Algebra and Vector Calculus	3	250102	Blended
610262	Engineering Analysis (2)	3	250205	Blended
611301	Engineering Statistics	3	650260	Blended
620172	Engineering Workshop (2)	1	620171	Physical
650260	Engineering Analysis (1)	3	250102	Blended

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

Course No.	Course Title	Cr.Hr.	Prerequisite	Kind of Learning
611541	Bioenergy Systems	3	611341	Blended
611542	Geothermal Energy	3	611341	Blended
611543	Hydraulic and Waves Energy	3	611341+620320	Blended
611544	Special Topics in Renewable Energy	3	Degr. approval	Blended
611546	Smart Grids	3	611430	Blended
640329	Modeling and Simulation	3	610262+611301	Blended

(*) Concurrent
(**) Seven weeks (280 working hours) for training after completing (119) Cr.Hr.

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