



Total Credit Hours (160) Hrs.

Student Name: _____

Student No : _____

Academic Advisor: _____

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
116113	Language Skills (3) (European or Eastern languages)	3	116112	Blended
116114	Introduction to Project Management "For Non – Engineering Students"	3	---	Blended
116143	Legal Culture	3	---	Blended
216102	Data Analysis Skills " For Non-Engineering Students"	3	---	Blended
216104	Digital 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. (620) Mechanical Eng. (611) Renewable Energy Eng. (640) Mechatronics 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
610263	Programming Language	3	216099	Blended
640253	Engineering Skills	3	116108	ONLINE
610550	Entrepreneurship	3	640253	ONLINE

Third: Department Requirements (109) Cr.Hrs.				
A. Compulsory Requirements: (80) Cr.Hrs.				
Course No.	Course Title	Cr.Hr.	Prerequisite	Kind of Learning
610211	Electrical Circuits (1)	3	216132	Physical
610212	Electrical Circuits (2)	3	610211	Blended
610216	Electrical Circuits Lab.	1	610211 (*)	Physical
610313	Electromagnetic Fields	3	610260	Physical
610220	Logic Circuits	3	0610263	Physical
610222	Logic Circuits Lab.	1	610220 (*)	Physical
610242	Electronics (1)	3	610211	Blended
610342	Electronics (2)	3	610242	Physical
610343	Electronics (1) Lab.	1	610242 (*)	Physical
610323	Microprocessors	3	610220	Physical
610324	Microprocessors Lab.	1	610323(*)	Physical
610314	Electrical Machines (1)	3	610313	Physical
610316	Electrical Machines (1) Lab.	1	610314(*)	Physical
610325	Systems and Signals	3	610260	Blended
610332	Instruments and Measurements	3	610342	Physical
610344	Digital Electronics	3	610242	Physical
610411	Power System (1)	3	610314	Physical
610412	Power System (2)	3	610411+610262	Physical
610414	Automatic Control	3	610332+610260	Physical
610424	Embedded Systems Design	3	610323	Physical
610416	Automatic Control Lab.	1	610414(*)	Physical
610417	Power System Lab.	1	610411(*)	Physical

Course No.	Course Title	Cr.Hrs.	Prerequisite	Kind of Learning
610420	Analogue Communications	3	610325	Blended
610513	Power System Protection	3	610411	Physical
610428	Communications Lab.	1	610420(*)	Physical
610440	Engineering Project (1)	1	100 Cr.Hr.	Physical
640458	Reverse Engineering	3	640253	Blended
610514	Electrical Machines (2)	3	610314	Physical
610526	Communication Circuits	3	610242+610420	ONLINE
610530	Power Electronics	3	610342	Physical
611341	Introduction to Renewable Energy	3	216132	Blended
610540	Engineering Project (2)	2	610440+610499	Physical
610499	Engineering Training (**)	3	(115) Cr.Hr	Physical

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
620172	Engineering Workshop (2)	1	620171	Physical
610260	Engineering Analysis (1)	3	250102	Blended
610364	Probability and Random Variables	3	610260	Blended

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

Course No.	Course Title	Cr.Hrs	Prerequisite	Kind of Learning
610419	Electrical Installation	3	610411	Blended
610510	High Voltage Engineering	3	610412	Blended
610515	Transmission & Distribution of Power Systems	3	610411	Blended
610516	Special Topics in Electrical Engineering	3	Dept. Approval	Blended
610520	Operating and Control of Power System	3	610411	Blended
610586	Power Systems Reliability	3	610411	Blended

(*) Concurrent

(**) Seven weeks (280 hours) of training after completing (115) Cr.Hrs.

C. 5/10/2024

5/10/2024