



First Semester 2021/2022

First: University Requirements (24) Credit hours.

1) Mandatory Courses (18) credit hours, include the following subjects

Course				
Code	No.	Name	CH	Prerequisite
MS103	0100103	Military Science*	3	-
HSS116	1401116	Islamic Education	3	-
ARB123	1401123	Communication skills (Arabic 1)**	3	1401099
ENG124	1401124	Communication skills (English 1)**	3	1401098
HSS146	1401146	Entrepreneurship and innovation	1	concurrent
HSS147	1401147	Leadership & Social Accountability	1	
HSS148	1401148	Life Skills	1	
HSS150	1401150	National Education *	3	-

2) Elective Courses: (6) credit hours, selected from the following subjects:

	0501114	Palestinian cause & Contemporary Arab History	3	-
	1211110	Art Education	3	-
	1401118	Ethics in Islam	3	-
	1401126	Human Rights	3	-
	1401127	Environmental Development	3	-
	1401130	Sports and Health	3	-
	1401131	Introduction to Sociology	3	-
	1401151	Campus Life Ethics	3	-
	1401221	Foreign Languages	3	-
	1401223	Communication skills (Arabic 2)	3	ARB123
	1401224	Communication skills (English 2)	3	ENG124
	1501127	Green Energy	3	-
	1501128	Communication & Social Media Technology	3	-
	1501154	Health Education	3	-
	1501163	Introduction to the future	3	-
	1501164	Digital Skills	3	-

Second: Faculty Requirements (24) credit hours

MATH110	1501110	Calculus I	3	-
EE112	0810112	Calculus II	3	MATH110
PHYS120	1501120	General Physics I	3	-
PHYS220	1501220	General Physics II	3	PHYS120
PHYS121	1501121	General Physics Lab I	1	PHYS120***
PHYS221	1501221	General Physics Lab II	1	PHYS220***
EE201	0810201	Computer Skills II	3	Passing Test
ME107	0802107	Engineering Workshop	1	-
IE323	0803323	Economy & Eng. Management	3	Pass 45 Hrs.
CE107	0805107	Engineering Drawing	1	-
CE203	0805203	Ethics & Technical Writing	2	ENG124

Third: Department Requirements (112) credit hours

A- Mandatory Courses (62) credit hours

PE201	0809201	Renewable Energy Applications & Sustainability	1	-
PE203	0809203	Linear Algebra	3	EE112
PE211	0809211	Electric Circuits I	3	EE112+PHYS220
PE212	0809212	Electric Circuits II	3	PE211
PE213	0809213	Electric Circuits Lab	1	PE212***
PE310	0809310	Electric Machines	3	PE212
PE311	0809311	Advanced Electric Machines	3	PE310
PE312	0809312	Electric Machines Lab	1	PE310
PE320	0809320	Power Systems	3	PE212
PE321	0809321	Power Systems Analysis	3	PE320
PE322	0809322	Power Systems Lab	1	PE320
PE324	0809324	Power System Software Lab	1	PE320
PE351	0809351	Sensors & Measurements Systems	3	EE215

Course			C.H.	Prerequisite
Code	No.	Name		
PE352	0809352	Measurements Lab	1	PE351
PE430	0809430	Power Electronics	3	EE215
PE451	0809451	Automatic Control Systems	3	EE340
PE452	0809452	Automatic Control Systems Lab	1	PE451
PE463	0809463	Advance Automatic Control	3	PE451
PE510	0809510	Power Systems Control	3	PE451
PE540	0809540	Electric Drive Systems	3	PE430+PE451
PE541	0809541	Power Electronics and Drive Lab	1	PE540
PE550	0809550	Power System Protection	3	PE321
PE552	0809552	Control via Computer	3	PE451
PE580	0809580	Renewable Energy Systems	3	PE430
PE585	0809585	Project I	1	Dept. Approval
PE587	0809587	Project II	2	PE585
PE589	0809589	Field Training	3	Dept. Approval

B- Elective Courses (9) credit hours

PE490	0809490	Intelligent Control Systems	3	PE451
PE423	0809423	Design of Low Voltage Systems	3	PE321
PE560	0809560	Planning of Power Transmission and Distribution Systems	3	PE321
PE570	0809570	High Voltage Engineering	3	PE320
PE513	0809513	Power Stations	3	PE311
PE514	0809514	Nuclear Energy	3	PE320
PE525	0809525	Power System Stability	3	PE321
PE527	0809527	Economics of Electric Power	3	PE321
PE529	0809529	Special Topics in Power & Control Eng.	3	Dept. Approval
EE543	0810543	Digital Signal Processing	3	EE340

C- Support Mandatory Courses from other departments (41) credit hours

EE202	0810202	Engineering Application lab	1	EE201
EE203	0810203	Advanced Engineering Math I	3	EE112
EE215	0810215	Electronics	3	PE211
EE312	0810312	Electronics Lab	1	EE215
EE220	0810220	Engineering Analysis	3	EE112
EE222	0810222	Electromagnetics	3	PHYS220+EE220
EE271	0810271	Logic Circuits Design	3	EE201
EE272	0810272	Logic Circuits Design Lab	1	EE271
EE302	0810302	Numerical Analysis	3	EE201
EE340	0810340	Signals and Systems Analysis	3	EE203
EE344	0810344	Probability & Random Variables	3	EE340***
EE370	0810370	Communications	3	EE340
EE371	0810371	Communications Lab	1	EE370
EE365	0810365	Microprocessor Systems	3	EE271
EE480	0810480	Embedded Systems	3	EE365
EE481	0810481	Embedded Systems Lab	1	EE480
CHEM130	1501130	General Chemistry	3	-

*Non-Jordanian students may take any subject offered instead of Military Science.

**All students must take a skill level test in Arabic and English languages. Students failing any of the tests shall register for a remediation course in the subject they failed which will be outside their study plan.

***simultaneously with

**** Student has to fulfill the requirements for community service.

C.H. : Credit Hour