

First Semester 2022/2023

First: University Requirements (24) Credit hours.

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

Course							
Code	No.	Name	C.H.	Th.	Pr.	T.T	Prerequisite
MS103	0100103	Military Science*	3	3	0	O	-
HSS116	1401116	Islamic Education	3	3	0	O	-
ARB123	1401123	Communication skills (Arabic 1)	3	3	0	O	1401099**
ENG124	1401124	Communication skills (English 1)	3	3	0	O	1401098**
HSS146	1401146	Entrepreneurship and innovation	1	1	0	O	
HSS147	1401147	Leadership & Social Accountability	1	1	0	O	concurrent
HSS148	1401148	Life Skills	1	1	0	O	
HSS150	1401150	National Education	3	3	0	O	-

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

0501114	Palestinian cause & Contemporary Arab History	3	3	0	O	-
1211110	Art Education	3	3	0	O	-
1401118	Ethics in Islam	3	3	0	O	-
1401126	Human Rights	3	3	0	O	-
1401127	Environmental Development	3	3	0	O	-
1401130	Sports and Health	3	3	0	O	-
1401131	Introduction to Sociology	3	3	0	O	-
1401151	Campus Life Ethics	3	3	0	O	-
1401221	Foreign Languages	3	3	0	O	-
1401223	Communication skills (Arabic 2)	3	3	0	O	ARB123
1401224	Communication skills (English 2)	3	3	0	O	ENG124
1501127	Green Energy	3	3	0	O	-
1501128	Comm. & Social Media Technology	3	3	0	O	-
1501154	Health Education	3	3	0	O	-
1501163	Introduction to the future	3	3	0	O	-
1501164	Digital Skills	3	3	0	O	-

Second: Faculty Requirements (24) credit hours

MATH110	1501110	Calculus I	3	3	0	F	-
EE112	0810112	Calculus II	3	3	0	F	MATH110
PHYS120	1501120	General Physics I	3	3	0	F	-
PHYS220	1501220	General Physics II	3	3	0	F	PHYS120
PHYS121	1501121	General Physics Lab I	1	0	3	F	PHYS120***
PHYS221	1501221	General Physics Lab II	1	0	3	F	PHYS220***
EE201	0810201	Computer Skills II	3	3	0	O	Passing Test
ME107	0802107	Engineering Workshop	1	0	3	F	-
IE323	0803323	Economy & Eng. Management	3	3	0	B	Pass 45 Hrs.
CE107	0805107	Engineering Drawing	1	0	3	B	-
CE203	0805203	Ethics & Technical Writing	2	2	0	B	ENG124

Third: Department Requirements (112) credit hours

A- Mandatory Courses (82) credit hours

EE202	0810202	Engineering Application lab.	1	0	3	F	EE201
EE203	0810203	Advanced Engineering Math I	3	3	0	B	EE112
EE215	0810215	Electronics	3	3	0	F	PE211
EE220	0810220	Engineering Analysis	3	3	0	B	EE112
EE222	0810222	Electromagnetics	3	3	0	F	PHYS220+EE220
EE250	0810250	Object Oriented Programming	3	3	0	B	EE201
EE251	0810251	Object Oriented Programming Lab	0	0	3	F	EE250***
EE271	0810271	Logic Circuits Design	3	3	0	F	EE201
EE272	0810272	Logic Circuits Design Lab	1	0	3	F	EE271
EE302	0810302	Numerical Analysis	3	3	0	B	EE201
EE312	0810312	Electronics Lab.	1	0	3	F	EE215
EE340	0810340	Signals and Systems Analysis	3	3	0	F	EE203
EE344	0810344	Probability & Random Variables	3	3	0	F	EE340***
EE367	0810367	Microprocessor & Computer Arch.	3	3	0	B	EE271

Course							
Code	No.	Name	C.H.	Th.	Pr.	T.T	Prerequisite
EE368	0810368	Microprocessor & Computer Arch. Lab.	1	0	3	F	EE367
EE411	0810411	Digital Electronics	3	3	0	F	EE215
EE412	0810412	Digital Electronics Lab	1	0	3	F	EE411
EE370	0810370	Communications	3	3	0	B	EE340
EE371	0810371	Communications Lab	1	0	3	F	EE370
EE443	0810443	Digital Communications	3	3	0	F	EE370
EE444	0810444	Digital Communications Lab	1	0	3	F	EE443+EE371
EE480	0810480	Embedded Systems	3	3	0	B	EE367
EE481	0810481	Embedded Systems Lab	1	0	3	F	EE480
EE475	0810475	Comm. & Computer Networks	3	3	0	B	EE370
EE476	0810476	Comm. & Computer Networks Lab.	1	0	3	F	EE475
EE510	0810510	Security Systems & Cryptography	3	3	0	B	EE475
EE470	0810470	Antennas & Wave Propagation	3	3	0	B	EE222
EE471	1081047	Antennas & Wave Propagation Lab.	1	0	3	F	EE470
EE532	0810532	Wireless & Mobile Communications	3	3	0	F	EE443
EE547	0810547	Fiber Optic Communications	3	3	0	B	EE370+EE222
EE490	0810490	Artificial Intelligence & Machine Learning	3	3	0	B	EE250
EE545	0810545	Communication Electronics	3	3	0	F	EE443
EE562	0810562	Operating Systems and Security	3	3	0	B	EE367
EE585	0810585	Project I	1	1	0	B	Pass 120 Hrs.
EE587	0810587	Project II	2	2	0	B	EE585
EE589	5890810	Engineering Training	3	3	0	F	Pass 115 Hrs.

B- Elective Courses (9) credit hours

EE420	0810420	Database Systems	3	3	0	F	EE250
EE511	0810511	Protocols & Network Programming	3	3	0	F	EE475
EE512	0810512	Digital Image Processing	3	3	0	F	EE340
EE513	0810513	Wireless Internet of Things.	3	3	0	F	EE475
EE535	0810535	Information Theory and Coding	3	3	0	F	EE443
EE543	0810543	Digital Signal Processing	3	3	0	F	EE340
EE548	0810548	Satellite Communication Systems	3	3	0	F	EE443
EE549	0810549	Microwave Engineering	3	3	0	F	EE470
EE565	0810565	Software Engineering	3	3	0	F	EE250
EE586	0810586	Neural Networks and Fuzzy logic	3	3	0	F	EE201
EE593	0810593	Special Topics in Electrical Eng.	3	3	0	F	Dept. Approval

C- Support Mandatory Courses from other departments (21) credit hours

PE201	0809201	Ren. Energy App. & Sustainability	1	1	0	F	-
PE204	0809204	Discrete Math and Linear Algebra	3	3	0	B	EE112
PE211	0809211	Electric Circuits I	3	3	0	F	EE112+PHYS220
PE212	0809212	Electric Circuits II	3	3	0	F	PE211
PE213	0809213	Electric Circuits Lab	1	0	3	F	PE212***
PE325	0809325	Machines and Electrical Power	3	3	0	F	PE212
PE451	0809451	Automatic Control Systems	3	3	0	B	EE340
PE452	0809452	Automatic Control Systems Lab	1	0	3	F	PE451
CHEM100	1722100	General Chemistry	3	3	0	F	-

*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 \ Th. : Theoretical \ Pr. : Practical

T.T : Teaching Types

O Full - online learning courses (Synchronous or Asynchronous).

B Blended learning course (Asynchronous).

F Face to Face learning courses