

**Electrical Engineering Department**  
**Communications Track Curriculum**  
**Effective year 2021**

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- Degree Requirement (163) Credit Hours (CH).

1. University Requirements (27 Credit Hours):

1-a) Prerequisite Requirements (9 Credit Hours):

Subject Number	Subject	Credit Hours	Prerequisite
0304096	Computer Skills Exam	0	-
0304099	Computer Skills (99)	3	0304096
1801096	Arabic Language Exam	0	-
1801099	Arabic Language (99)	3	1801096
1802096	English Language Exam	0	-
1802099	English Language (99)	3	1802096

1-b) University Compulsory Requirements Courses (12 Credit Hours):

Subject Number	Subject	Credit Hours	Prerequisite
0101173	Military Science	3	-
0605105	National Education	3	-
1801101	Arabic Language (1)	3	1801099
1802101	English Language (1)	3	1802099

1-c) University Elective Requirements Courses- First Field (6 Credit Hours):

Subject Number	Subject	Credit Hours	Prerequisite
0201102	Arabic Language (Literary Tasting)	3	-
0209107	Italian language (1)	3	-
0209109	French Language (1)	3	-
0500100	Islamic Culture	3	-
0500103	Human Right in Islam	3	-
0500105	Islam thoughts and life	3	-
0500106	Modern Islamic issues	3	-
0706100	Law In our Lives	3	-
0803101	Educational Principles	3	-
0801103	Environmental Education	3	-
0809101	Principles of Physiology	3	-
1301100	Principles of Physical Education	3	-
1802102	English Language (2)	3	1802101

1-d) University Elective Requirements Courses- Second Field (6 Credit Hours):

Subject Number	Subject	Credit Hours	Prerequisite
1601104	Introduction to Domestic Violence	3	-
1602104	Geography of Jordan	3	-
1603102	Tourism in Jordan	3	-
1603103	Archologies of Jordan and Palestine in Ancient Times	3	-
1604102	Islamic Civilization	3	-
1604104	Jerusalem in Arabic and Islamic History	3	-
1605101	Introduction to politics science	3	-
1605103	Contemporary international and regional issues	3	-
2100100	Work Ethics	3	-
2101102	Developing innovative work skills	3	-
2101103	Developing the skills of preparing and writing administrative reports	3	-
2101104	Managerial skills	3	-
2102101	Fundamentals of Management (Non-Management Students)	3	-
2104100	Introduction to Economics (Non-Management Students)	3	-
2109103	Life Communication Skills	3	-

### 1-e) University Elective Requirements Courses- Third Field (6 Credit Hours):

Subject Number	Subject	Credit Hours	Prerequisite
0304112	Computer Skills(2)	3	0304099
0307110	Libraries and Information	3	-
0401121	Principles of General Electricity	3	-
0402120	Principles in Automotive Mechanics and Maintenance	3	-
0403120	Traffic Safety	3	-
0405121	Principles of computer operation and maintenance	3	-
1101108	Ornamental plants and home garden	3	-
1401100	Health culture	3	-
2200100	Internet and social media applications	3	-

### 2. Faculty Compulsory Requirements Courses (29 Credit Hours):

Subject Number	Subject	Credit Hours	Prerequisite
0301101	Calculus (1)	3	-
0301102	Calculus (2)	3	0301101
0301203	Ordinary Differential Equations (1)	3	0301102
0302101	General Physics (1)	3	-
0302102	General Physics (2)	3	0302101
0302111	General Physics laboratory (1)	1	0302101
0302112	General Physics laboratory (2)	1	0302102 or with
0303101	General Chemistry (1)	3	-
0303105	General Chemistry Laboratory (1)	1	0303101 or with
0402110	Engineering Workshop	1	-
0403198	Engineering Drawing	2	-
0403209	Computer Drawing by computer	1	0403198
0403302	Engineering Economy	3	0301203
0404200	Communication Skills	1	-

### 3. Department Compulsory Requirements Courses (49 Credit Hours):

Subject Number	Subject	Credit Hours	Prerequisite
0401200	Engineering analysis	3	0301203
0401109	<a href="#">Probability, Stochastic Processes &amp; Statistics</a>	3	0401102
0401208	Signals and Systems	3	0401211
0401211	Electric Circuits (1)	3	0302102
0401212	Electric Circuits (2)	3	0401211
0401219	Electrical Circuits & Filters LAB.	1	0401212 <b>Co</b>
0401220	<a href="#">MATLAB Applications Lab in Electrical Engineering</a>	1	0401212 <b>Co</b>
0401252	Electromagnetics	3	0401200
0401401	Field Training	3	Pass 123 CHs
0401441	Automatic Control	3	0401208
0401442	Measurements & Instrumentation	3	0401212
0401448	Measurements & Instrumentation LAB	1	0401442 and 0401219
0401500	Graduation Project (1)	0	Pass 120 CHs 0401220
0401591	Graduation Project (2)	3	0401500
0402226	<a href="#">Statics and Dynamics</a>	3	0302102 0403198
0402307	<a href="#">Numerical Analysis</a>	3	0301203
0405112	<a href="#">Programming for Engineers</a>	3	
0405271	Digital Systems Design	3	
0405486	<a href="#">Microprocessors and Embedded Systems</a>	3	0405271
0405487	<a href="#">Logic Design and Microprocessors Lab</a>	1	0405486

### 4. Specialty Compulsory Requirements Courses (49 Credit Hours):

Subject Number	Subject	Credit Hours	Prerequisite
0401261	Electronics (1)	3	0401211
0401362	Electronics (2)	3	0401261
0401368	Electronics LAB	1	0401219 0401362
0401363	Digital Electronics	3	0401362
0401353	Fields and Waves	3	0401252
0401370	Electric Machines and Power Systems	3	0401212
0401421	Communications (1)	3	0401208 0401261
0401422	Communications (2)	3	0401421
0401428	Analog Communication Lab	1	0401422
0401453	Microwave Engineering	3	0401353
0401521	Digital Communications	3	0401422
0401522	Communication Systems	3	0401521
0401523	Digital Communications & Communication Systems Lab	1	0401522
0401524	Digital Signal Processing	3	0401208
0401598	Data Transmission and Computer Networks	3	0401422

0401527	Optical Communications	3	0401353
0401599	Mobile Communication Systems	3	0401521
0401552	Antenna and Wave Propagation	3	0401353
0401596	Antenna and Microwave Lab	1	0401453 0401552

### 5. Specialty Elective Requirements Courses (9 Credit Hours):

Subject Number	Subject	Credit Hours	Prerequisite
0401215	Network Synthesis and Filters	3	0401208 0401212
0401462	Lasers and Optoelectronics	3	0401362
0401490	Introduction to IoT		0405486
0401525	Electronic Communication Circuits	3	0401422 0401362
0401528	Radar Engineering	3	0401453
0401529	Telephony Engineering		0401521
0401554	Acoustics Engineering	3	0401422
0401593	Selected Topics in Telecom. Eng.	3	0401522
0401594	Information and Communication Technologies	3	
0401595	Digital Video Broadcasting Technology	3	0401521