

Al-Ahliyya Amman University
Faculty of Engineering
Department of Electronics and
Communications Engineering
160 Credit Hours
Study Plan 2014-2015



Second: Faculty Compulsory Requirements: 33 Credit Hours

Course no.	Course Title	CR	Prerequisite	Co-requisite
0111101	Mathematics (1)	3	-	-
0111202	General Physics (1)	3	-	-
0111203	General Physics (2)	3	0111202	-
0111204	General Physics Lab.	1	0111202	0111203
0112102	Mathematics (2)	3	0111101	-
0811201	Computer Skills (Engineering)	3	0331200	-
0812101	Technical Writing	1	0121181	-
0812102	Engineering Ethics	1	0121181	-
0832103	Engineering Mathematics (1)	3	0112102 *	-
0832104	Engineering Mathematics (2)	3	0832103	-
0832107	Engineering Statistics	3	0112102	-
0833105	Numerical Analysis	3	0832104	-
0871101	Engineering Workshops	1	-	-
0871102	Engineering Drawing	2	-	-

Third: Major Requirements: 100 Credit Hours

A) Compulsory Major Requirements: 47 Credit Hours

Course no.	Course Title	CR	Prerequisite	Co-requisite
0822201	Electronics (1)	3	0872301	-
0822202	Electronics (1) Lab.	1	0822201	-
0823203	Electronics (2)	3	0822201	-
0823204	Electronics (2) Lab.	1	0823203	-
0823207	Digital Electronics	3	0823203	-
0823208	Digital Electronics Lab.	1	0823207	-
0823501	Signals and Systems	3	0832103	-
0823101	Probability and Random Processes	3	0832107	-
0823502	Analog Communications	3	0823501 *	-
0824503	Analog Communications Lab.	1	0823502	-
0824504	Digital Communications	3	0823502	-
0824505	Digital Communications Lab.	1	0824504	-
0824507	Digital Signal Processing	3	0823501 *	-
0825210	Communication Electronics	3	0824504	-
0825211	Optical Communication Electronics	3	0824504	-
0825508	Mobile Communication Systems	3	0824504	-
0825509	Communications and Computer Networks	3	0824504	-
0824901	Field Training	3	Passing 110 CR	-
0825902	Graduation Project (1)	1	Passing 120 CR	-
0825903	Graduation Project (2)	2	0815902	-

B) Ancillary Major Requirements: 47 Credit Hours

Course no.	Course Title	CR	Prerequisite	Co-requisite
0812401	Digital Logic Circuits	3	0112102	-
0812402	Digital Logic Circuits Lab.	1	0812401	-
0813405	Microprocessors	3	0812401	-
0814407	Embedded Systems	3	0813405	-
0814415	Microprocessors and Embedded Systems Lab.	1	0813405	0814407
0814104	Discrete Mathematics	3	0832104	-
0814105	Engineering Numerical Applications	1	0833105	-
0872301	Electric Circuits (1)	3	0111202 *	-
0872302	Electric Circuits (2)	3	0872301	-
0872303	Electric Circuits Lab.	1	-	0872302
0872304	Electromagnetics	3	0111203	-
0873305	Electrical Machines	3	0872302	-
0874306	Electrical Machines Lab.	1	0873305	-
0873308	Instrumentation and Measurements	3	0872302 0823203	-
0873309	Instrumentation and Measurements Lab.	1	-	0873308
0874106	Engineering Economy and Management	3	0832107	-
0874209	Power Electronics	3	0823203 0823501	-
0874310	Electrical Power Systems (1)	3	0873305	-
0874311	Power and Power Electronics Lab.	1	0874209	0874310
0874312	Control Systems	3	0823501	-
0875313	Control Systems Lab.	1	0874312	-

C) Elective Major Requirements: 6 Credit Hours

Course no.	Course Title	CR	Prerequisite	Co-requisite
0825212	Selected Topics in Electronics	3	0823203	-
0825511	Antennas and Wave Propagation	3	0872304	-
0825512	Microwave Engineering	3	0872304	-
0825513	Information Theory and Coding	3	0824504	-
0825514	Radar Engineering	3	0824504	-
0825515	Selected Topics in Communications	3	0824504	-

Fourth: Remedial Requirements (for students who have not passed the Level Exam)

Course no.	Course Title	CR	Prerequisite
0161100	Arabic Language (Remedial)	3	-
0171100	English Language (Remedial)	3	-
0331200	Computer Skills (Remedial)	3	-

First: University Requirements: 27 Credit Hours

1) Compulsory University Requirements: 12 Credit Hours

Course no.	Course Title	CR	Prerequisite	Exception
0121181	English Language Communication Skills (1)	3	0171100	-
0161101	Arabic Language Communication Skills (1)	3	0161100	-
0161200	Military Sciences	3	-	Non-Jordanians
0161201	National Education	3	-	-

2) Elective University Requirements: 15 Credit Hours

A) Humanities: 6 Credit Hours

Course no.	Course Title	CR	Prerequisite	Exception
0152102	English Language Communication Skills (2)	3	0121181	-
0161300	Islamic Culture	3	-	-
0162102	Arabic Language Communication Skills (2)	3	0161101	-
0162301	History of Jordan and Palestine	3	-	-
0411100	Human Rights	3	-	Law Students

B) Social and Economic Sciences: 6 Credit Hours

Course no.	Course Title	CR	Prerequisite	Exception
0132200	Psychology and Life	3	-	Psychology Students
0143301	Entrepreneurship	3	-	-
0162302	Media and Public Relations	3	-	-
0561500	Tourism and Archaeology	3	-	Hotels & Tourism Students

C) Sciences, Technology, and Health: 3 Credit Hours

Course no.	Course Title	CR	Prerequisite	Exception
0161303	Sport and Health	3	-	-
0162305	Environmental and Public Safety	3	-	-
0162306	Science and Life	3	-	-

Community Service is a mandatory graduation requirement (10 hours of service).

* This prerequisite must be successfully passed .



Ref.: Deans' Council Session (09/2014-2015), Decision No: (06)

Date: 4,6/11/2014

