

Al-Ahliyya Amman University
Faculty of Engineering
Department of Electrical Engineering
(160) Credit Hours
Study Plan 2014-2015

First: University Requirements: (27) Credit Hours

1) Compulsory University Requirements: (12) Credit Hours

Course no.	Course Title	Cr.H.	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.H.	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.H.	Prerequisite	Exception
0132200	Psychology and Life	3	-	Psychology Students
0143301	Entrepreneurship	3	-	-
0161301	Islam and Life	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.H.	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 before registering the course



Second: Faculty Compulsory Requirements: (33) Credit Hours

Course no.	Course Title	Cr.H.	Prerequisite	Co-requisite
0111101	Mathematics (1)	3	-	-
0111202	General Physics (1)	3	-	-
0111203	General Physics (2)	3	0111202	-
0111204	General Physics Lab.	1	-	0111202
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	0112102	-
0832107	Engineering Statistics	3	0111101	-
0833105	Numerical Analysis	3	0832104	-
0871101	Engineering Workshop	1	-	-
0871102	Engineering Drawing	2	-	-

Third: Major Requirements: (100) Credit Hours

A) Compulsory Major Requirements: (49) Credit Hours

Course no.	Course Title	Cr.H.	Prerequisite	Co-requisite
0872301	Electric Circuits (1)	3	0111202	-
0872302	Electric Circuits (2)	3	0872301*	-
0872303	Electric Circuits Lab.	1	0872301	0872302
0872304	Electromagnetics	3	0111203	-
0873305	Electrical Machines	3	0872302	-
0873308	Instrumentation and Measurements	3	0822201	-
0873309	Instrumentation and Measurements Lab.	1	-	0873308
0874106	Engineering Economy and Management	3	0111101	-
0874209	Power Electronics	3	0822201	0823501
0874210	Power Electronics Lab.	1	-	0874209
0874306	Electrical Machines Lab.	1	-	0873305
0874310	Electrical Power Systems (1)	3	0873305	-
0874312	Control Systems	3	0823501	-
0874314	Design of Lighting and Electrical Installations	3	0874310	-
0874316	Electrical Power Systems (2)	3	0874310*	-
0874317	Electrical Power Systems Lab.	1	0874310	0874316
0874901	Field Training	3	Pass (110) Cr.H.	-
0875313	Control Systems Lab.	1	-	0874312
0875315	Design of Lighting and Electrical Installations Lab.	1	-	0874314
0875318	Renewable Energy Systems	3	0874310 0874209	-
0875902	Graduation Project (1)	1	Pass (120) Cr.H.	-
0875903	Graduation Project (2)	2	0875902	-

B) Ancillary Major Requirements (45) Credit Hours

Course no.	Course Title	Cr.H.	Prerequisite	Co-requisite
0812401	Digital Logic Circuits	3	-	-
0812402	Digital Logic Circuits Lab.	1	-	0812401
0813405	Microprocessors	3	0812401	-
0814104	Discrete Mathematics	3	0832104	-
0814407	Embedded Systems	3	0812401	-
0814415	Microprocessors & Embedded Systems Lab.	1	0813405	0814407
0822201	Electronics (1)	3	0872301*	-
0823101	Probability & Random Processes	3	0832107	-
0823203	Electronics (2)	3	0822201	-
0823206	Electronics Lab.	1	0822201	0823203
0823207	Digital Electronics	3	0823203	-
0823208	Digital Electronics Lab.	1	-	0823207
0823501	Signals and Systems	3	0112102	-
0823502	Analog Communications	3	0823501*	-
0823504	Digital Communications	3	0823502	-
0824506	Communications Lab.	1	-	0824504
0825210	Communication Electronics	3	0824504	-
0825510	Communication Systems and Control in Electric Power Systems	3	0824504 0874310	-
0833108	Numerical Analysis Lab.	1	0833105	-

C) Elective Major Requirements: (6) Credit Hours

Course no.	Course Title	Cr.H.	Prerequisite	Co-requisite
0824507	Digital Signal Processing	3	0823501	-
0825212	Selected Topics in Electronics	3	ECE Department Approval	-
0874321	Electrical Drives	3	0873305	0874209
0875319	Distributed Generation and Smart Grids	3	0875318	-
0875320	Power Systems Protection	3	0874310	-
0875322	Selected Topics in Electrical Engineering	3	EE Department Approval	-

Fourth: Remedial Requirements (to a student who has not passed the level exam)

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



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

Date: 4,6/11/2014

