

## ECE Advisory Five-Year Study Plan (2014/2015)

Department of Electronics and Communications Engineering

Faculty of Engineering

First Year / First Semester				
C N	Course Title	CR	Prerequisite	Co-requisite
0111101	Mathematics (1)	3	-	-
0111202	General Physics (1)	3	-	-
0161101	Arabic Communication Skills	3	0161100	-
0161201	National Education	3	-	-
0871102	Engineering Drawing	2	-	-
xxxxxxx	University Elective	3	-	-
<b>Total: 17 CR</b>				

First Year / Second Semester				
C N	Course Title	CR	Prerequisite	Co-requisite
0811201	Computer Skills (Engineering)	3	0331200	-
0112102	Mathematics (2)*	3	0111101	-
0111203	General Physics (2)	3	0111202	-
0111204	General Physics Lab.	1	-	0111202
0121181	English Communication Skills (1)	3	0171100	-
0871101	Engineering Workshops	1	-	-
xxxxxxx	University Elective Requirement	3	-	-
<b>Total: 17 CR</b>				

Second Year / First Semester				
C N	Course Title	CR	Prerequisite	Co-requisite
0872301	Electric Circuits (1)	3	0111202	-
0872303	Electric Circuits Lab.	1	-	0872301
0832103	Engineering Mathematics (1)	3	0112102	-
0832107	Engineering Statistics	3	0111101	-
0812401	Digital Logic Circuits	3	-	-
0812402	Digital Logic Circuits Lab.	1	-	0812401
0812101	Technical Writing	1	0121181	-
xxxxxxx	University Elective	3	-	-
<b>Total: 18 CR</b>				

Second Year / Second Semester				
C N	Course Title	CR	Prerequisite	Co-requisite
0832104	Engineering Mathematics (2)	3	0112102	-
0872302	Electric Circuits (2)*	3	0872301	-
0822201	Electronics (1)	3	0111203	-
0822202	Electronics (1) Lab.	1	-	0822201
0833105	Numerical Analysis	3	0112102	-
xxxxxxx	University Elective Requirement	3	-	-
<b>Total: 16 CR</b>				

Third Year / First Semester				
C N	Course Title	CR	Prerequisite	Co-requisite
0823203	Electronics (2)	3	0822201	-
0823204	Electronics (2) Lab.	1	-	0823203
0833108	Engineering Numerical	1	0833105	-
0823101	Probability and Random Processes	3	0112102	-
0823501	Signals and Systems	3	0112102	-
0812102	Engineering Ethics	1	0121181	-
0872304	Electromagnetics	3	0111203	-
xxxxxxx	University Elective	3	-	-
<b>Total: 18 CR</b>				

Third Year / Second Semester				
C N	Course Title	CR	Prerequisite	Co-requisite
0823207	Digital Electronics	3	0823203	-
0823208	Digital Electronics Lab.	1	-	0823207
0873308	Instrumentation and Measurements	3	0822201	-
0873309	Instrumentation and Measurements Lab.	1	-	0873308
0823502	Analog Communications*	3	0823501	-
0823503	Analog Communications Lab.	1	-	0823502
0873305	Electrical Machines	3	0872302	-
0813405	Microprocessors	3	0812401	-
<b>Total: 18 CR</b>				

Fourth Year / First Semester				
C N	Course Title	CR	Prerequisite	Co-requisite
0824504	Digital Communications	3	0823502	-
0824505	Digital Communications Lab.	1	-	0824504
0814104	Discrete Mathematics	3	0832104	-
0814407	Embedded Systems	3	0813405	-
0814415	Microprocessors & Embedded Systems Lab.	1	-	0814407, 0813405
0874306	Electrical Machines Lab.	1	-	0873305
0874209	Power Electronics	3	0822201	0823501
<b>Total: 15 CR</b>				

Fourth Year / Second Semester				
C N	Course Title	CR	Prerequisite	Co-requisite
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
0824507	Digital Signal Processing*	3	0823501	-
0874106	Engineering Economy and Management	3	0111101	-
0824901	Field Training	3	Passing 110	-
<b>Total: 17 CR</b>				

Fifth Year / First Semester				
C N	Course Title	CR	Prerequisite	Co-requisite
0825210	Communication Electronics	3	0824504	-
0825211	Optical Communication	3	0823203	-
0825902	Graduation Project (1)	1	Passing 120 CR	-
0825509	Communications & Computer Networks	3	0823501	-
082xxxx	Major Elective Requirement	3	-	-
<b>Total: 13 CR</b>				

Fifth Year / Second Semester				
C N	Course Title	CR	Prerequisite	Co-requisite
0825508	Mobile Communication Systems	3	0824504	-
0825903	Graduation Project (2)	2	0815902	-
0161200	Military Sciences	3	-	-
082xxxx	Major Elective Requirement	3	-	-
<b>Total: 11 CR</b>				

\* Students must complete the prerequisite of this course with a passing grade in order to register it.