

7 Advisory Plan

Bachelor of Science Degree (B.Sc.) in Electrical Engineering

Total Credit Hours: 160

Codes used in Study Plan:

(610) Electrical Eng.
 (620) Mechanical Eng.
 (630) Computer Eng.

(640) Mechatronics Eng.
 (650) Communications & Electronics Eng.
 (660) Architectural Eng.

First Year							
First Semester				Second Semester			
Course No.	Course Title	Cr. H.	Prerequisite	Course No.	Course Title	Cr. H.	Prerequisite
114101	Arabic Language Skills (1)	3	114099	111101	National Education	3	----
130101	English Language Skills (1)	3	130099	130102	English Language Skills (2)	3	130101
250101	Calculus (1)	3	-----	250102	Calculus (2)	3	250101
211104	Applied Physics	3	-----	----	Selected Elective Faculty Course	3	----
620131	Engineering Drawing	3	-----	630263	Programming Language	3	----
620171	Engineering Workshop (1)	1	-----	620172	Engineering Workshop (2)	1	620171
Total		16		Total		16	

Second Year							
First Semester				Second Semester			
Course No.	Course Title	Cr. H.	Prerequisite	Course No.	Course Title	Cr. H.	Prerequisite
640253	Engineering Skills	3	130102	630262	Engineering Analysis (2)	3	650260
610211	Electric Circuits (1)	3	211104	610213	Electromagnetic (1)	3	650260 + 650163
630211	Logic Circuits	3	630263	610212	Electric Circuits (2)	3	610211
650163	Basis of Engineering Analysis	3	250102	650242	Electronics (1)	3	610211
650260	Engineering Analysis (1)	3	250102	----	Selected Elective University Course	3	----
610216	Electric Circuits Lab.	1	610211	630212	Logic Circuits Lab.	1	630211
Total		16		Total		16	

Third Year							
First Semester				Second Semester			
Course No.	Course Title	Cr. H.	Prerequisite	Course No.	Course Title	Cr. H.	Prerequisite
610314	Electric Machines (1)	3	610213	650364	Probability and Random Variables	3	650320
650342	Electronics (2)	3	610211+ 650242	610332	Instrumentation and Measurement	3	650342
630313	Microprocessors	3	630211	650344	Digital Electronics	3	650242+ 630211
620313	Thermodynamics	3	250102		Selected Elective University Course	3	----
650320	Systems and Signals	3	630262	610316	Electric Machines(1) Lab.	1	610314
610359	Engineering Project (1)	1	620172+ 650242	610336	Instrumentation and Measurement Lab.	1	610332
650343	Electronics (1) Lab.	1	650342	303146	Microprocessor Lab.	1	630313
Total		17		Total		15	

Fourth Year							
First Semester				Second Semester			
Course No.	Course Title	Cr. H.	Prerequisite	Course No.	Course Title	Cr. H.	Prerequisite
610514	Electric Machines (2)	3	610314	610414	Automatic Control	3	610332
610411	Power Systems (1)	3	610314	610412	Power Systems (2)	3	610411
650420	Analog Communications	3	650364	650425	Digital Communications	3	650420
630414	Embedded Systems	3	630313	640458	Reverse Engineering	3	610359
----	Selected Elective University Course	3	----	----	Selected Elective University Course	3	----
111100	Military Science	3	----				
Total		18		Total		15	

Fourth Year			
Summer Semester			
Course No.	Course Title	Cr. H.	Prerequisite
610458	Engineering Training	0	90 Cr. H.

Fifth Year							
First Semester				Second Semester			
Course No.	Course Title	Cr. H.	Prerequisite	Course No.	Course Title	Cr. H.	Prerequisite
610530	Power Electronics	3	650342	610550	Engineering Entrepreneurship	3	640253+120 Cr.H.
650526	Communications Circuits	3	650420	650527	Communications Transmission Systems	3	650425
----	Selected Elective University Course	3	----	610517	Electric Machines (2) Lab.	1	610314
650428	Communications Lab.	1	650420	610513	Power Systems Protection	3	610412
----	Selective Elective Department Course	3	----	----	Selective Elective Department Course	3	----
610416	Automatic Control Lab.	1	610414	610417	Power System Lab.	1	610411
610459	Engineering Project (2)	1	120 Cr. H +610359	610559	Engineering Project (3)	2	610459
Total		15		Total		16	