

Guidance Plan

First Year

First Semester				Second semester			
Course No.	Course Title	Credit Hours	Prerequisite or Co-Requisite	Course No.	Course Title	Credit Hours	Prerequisite or Co-Requisite
110102101	General Physics (1)	3	-	110101102	Calculus 2	3	110108101
110103107	Engineering Chemistry	3	-	110102102	General Physics (2)	3	110102101
110108101	Calculus 1	3	-	110102103	General Physics Lab (1)	1	110102101 -Co-requisite
110400201	Manual Engineering Drawing	2	-	110103108	Engineering Chemistry Lab	1	110103107 -Co-requisite
111405101	Arabic Language	3	Level test in Arabic language or 1405098	110108112	Computer Programming	3	Computer skills level test or 110108099
111405110	English Language	3	Level test in English language or 111405099	110400101	Engineering Workshop	1	-
				110400202	Computer Aided Engineering Drawing	1	110400201
				111404117	Military Science	3	-
Total		17		Total		16	

Note: The student can commence in Practical Training in one of the summer semesters after passing 112 credit hours at least Including "Ethics and Communication Skills -0400203" without the Courses from outside the curriculum

Second Year

First Semester				Second semester			
Course No.	Course Title	Credit Hours	Prerequisite or Co-Requisite	Course No.	Course Title	Credit Hours	Prerequisite or Co-Requisite
110101201	Calculus (3)	3	110101102	110400203	Ethics and Communication Skills	3	111405110
110101203	Ordinary Differential Equations (1)	3	110101102	110402303	Numerical Analysis	3	110108112 and 110101203
110406260	Applied Mathematics	3	110101203	110409203	Electrical Circuits (2)	3	110409201
110408220	Digital Logic	3	110101102 or 111001141	110409221	Electromagnetic (1)	3	110101201 and 110102102
110409201	Electrical Circuits (1)	3	110101102 and 110102102	110409240	Electronics (1)	3	110406229 or 110409201
111404118	Citizenship Education	3	-				
Total		18		Total		15	

Third Year

First Semester				Second semester			
Course No.	Course Title	Credit Hours	Prerequisite or Co-Requisite	Course No.	Course Title	Credit Hours	Prerequisite or Co-Requisite
-	University Elective	3	-	110409325	Analog Communications	3	110409322
110408221	Digital Logic Lab	1	110408220	110409324	Electromagnetic (2)	3	110409221
110408332	Assembly Language and Microprocessors	3	110408220 and 110409240	110409342	Electronics Lab	1	110409300 and (110409341 or 110406320)
110409300	Electrical Circuits Lab	1	110102103 and (110409203 or 110406229)	110409343	Digital Electronics	3	110409240 and 110408220
110409321	Probability and Random Processes	3	110101102	110409361	Electrical Machines (1)	3	110409221
110409322	Signals and Systems	3	110406260 or (110101152 and 110101203)	-	University Elective	3	-
110409341	Electronics (2)	3	110409240				
Total		17		Total		16	

Fourth Year

First Semester				Second semester			
Course No.	Course Title	Credit Hours	Prerequisite or Co-Requisite	Course No.	Course Title	Credit Hours	Prerequisite or Co-Requisite
-	University Elective	3	-	-	University Elective	3	-
-	Elective (EE)	3	-	-	Elective (EE)	3	-
110405331	Automatic Control	3	110101203	110405332	Automatic Control Lab	1	110405331
110408333	Microprocessors Lab	1	110408221 and 110408332	110409421	Communications Lab	1	110409432
110409432	Digital Communications	3	110409325 and 11409321	110409422	Digital Signal Processing	3	110409322 or 110406370
110409461	Electrical Power System	3	110409361	110409433	Wireless Communications Systems	3	110409432
				110409470	Electrical Machines and Electrical Power systems Lab	1	110409461
Total		16		Total		15	

Fifth Year

First Semester				Second semester			
Course No.	Course Title	Credit Hours	Prerequisite or Co-Requisite	Course No.	Course Title	Credit Hours	Prerequisite or Co-Requisite
-	Elective (EE)	3	-	-	Elective (EE)	3	-
-	University Elective	3	-	-	Elective (EE)	3	-
110408530	Microprocessors Based Systems	3	110408332	-	Free University Elective	3	-
110409560	Power Electronics	3	110409341	110409520	Communications Electronics	3	110409325 and 110409341
110409561	Renewable Power Generation	3	110409461	110409582	Graduation Project (2)	2	110409581
110409581	Graduation Project (1)	1	The Completion of (120) Credit Hours at least without the courses from outside the curriculum and department consent				
Total		16		Total		14	