

Advisory Plan 2018/2019

First Year

1 st Semester				2 nd Semester			
Course No.	Course Title	Cr. Hr	Prerequisite	Course No.	Course Title	Cr. Hr	Prerequisite
01101112	English Language	3	01100012	11031202	Calculus (2)	3	11031101
01101111	Arabic Language	3	01100011	04021220	Fundamentals of programming for engineers	3	01101151
04021120	Engineering Workshops	1	-----	04032101	Engineering Drawing	3	-
11031101	Calculus (1)	3	-----	11021202	General physics (2)	3	01102101
01101151	Computer Skills	3	01100051	04081211	General Chemistry	3	-----
11021101	General physics (1)	3	-----	11021212	General physics Lab (2)	3	Co. 01102102
11021111	General physics Lab (1)	1	Co.1102101	04081212	Practical General Chemistry	1	Co. 04081211
	Total Hours	17			Total Hours	17	

Second Year

1 st Semester				2 nd Semester			
Course No.	Course Title	Cr. Hr	Prerequisite	Course No.	Course Title	Cr. Hr	Prerequisite
04022110	Engineering Analysis (1)	3	11031202	04022210	Engineering Analysis (2)	3	04022110
04082111	Engineering Statics	3	11031101	04082251	Electronics (1)	3	04022130
-----	Selected (university)	3	-	04082231	Material Science	3	04081211
04022130	Electric Circuit (1)	3	11021202	04082211	Numerical Analysis	3	11031202
04022131	Electric Circuit Lab.	1	Co. 04022130	04082232	Strength of Materials	3	04082131
04082131	Applied Mecanics	3	11031101, 01102101	04082233	Strength of Materials Lab.	1	Co. 04082232
04032102	Engineering Ethics	1	-				
	Total Hours	17			Total Hours	16	

Third Year

1 st Semester				2 nd Semester			
Course No.	Course Title	Cr. Hr	Prerequisite	Course No.	Course Title	Cr. Hr	Prerequisite
04083131	Dynamics and Vibration	3	04082131	04033101	Technical Writing	3	01101112 & Finished 70 C.H
04083151	Electrical Machines	3	04022130	04083241	Thermodynamics	3	04083141
04083152	Electrical Machines Lab.	1	04083151	04083242	Heat Transfer	3	04083141
04033102	Administration and Engineering Economy	3	11031101	04083243	Heat Transfer Lab.	3	Co. 04083242
04083141	Fluid Mechanics	3	04022110+ 04082131	04083231	Instrumentations & Measurements	3	04082251
04083142	Fluid Mechanics Lab.	1	Co. 04083141	04083261	Analysis of Wind Speed and quality of the wind	1	04083131+ 04083141
04083161	Photovoltaic Energy Systems	2	04082251				
	Total Hours	16			Total Hours	15	

Fourth Year

1 st Semester				2 nd Semester			
Course No.	Course Title	Cr. Hr	Prerequisite	Course No.	Course Title	Cr. Hr	Prerequisite
04084161	Wind Energy Systems	2	04083131+ 04083241	04084281	Environmental Impact and Energy Protocols	3	-
04084162	Wind Energy Systems Lab	1	Co. 04084161	04084282	Energy Economics and Efficiency	3	Co. 04084281
04084163	Solar Thermal Energy Systems	3	04083242+ 04083241	-----	Selected (Department)	3	-----
04084151	Automatic Control Systems	3	04082211	-----	Selected (University)	3	-----
04084152	Automatic Control Systems Lab.	1	Co. 04084151	04084271	Transmission and Distribution Systems	3	04084171
04084171	Power Electronics	2	04082251	04084261	Solar Energy Lab.	1	04083161
04084172	Power Electronics Lab.	1	Co. 04084171	04084391	Engineering Training. Practical Training of 320 hrs.	3	Finished 115 Cr. Hrs.
-----	Selected (University)	3	-				
	Total Hours	16			Total Hours	19	

Fifth Year

1 st Semester				2 nd Semester			
Course No.	Course Title	Cr. Hr	Prerequisite	Course No.	Course Title	Cr. Hr	Prerequisite
04085171	Energy Conversion and Storage	3	04083241+ 04082231+ 04084171	04085281	Energy Management and Conservation	3	04084171
01101102	Civic Education	3	-	-	Free Course (University)	3	
04085161	Design of Renewable Energy Systems	3	04084161+ 04083261	04085291	Graduation Project (2)	2	04085191
-	Elective (Department)	3		01101101	Military Sciences	3	
-	Elective (Department)	3		04085271	Energy production technology	3	04085171
04085191	Graduation Project (1)	1	Graduation Projects Instruction				
	Total Hours	16			Total Hours	14	