

Advisement Plan for Renewable Energy Department

First Year							
First Semester				Second Semester			
Course No.	Course Title	Cr. H.	Prerequisite	Course No.	Course Title	Cr. H.	Prerequisite
114103	Connectivity and Communication Skills (Arabic Language Skills 1)	3	114099	111101	National Education	3	----
130107	Connectivity and Communication Skills (English Language Skills 1)	3	130099	130108	Connectivity and Communication Skills (English Language Skills 2)	3	130107
250101	Calculus (1)	3	-----	250102	Calculus (2)	3	250101
211101	General Physics (1)	3	-----	211102	General Physics (2)	3	211101
212101	General Chemistry (1)	3	-----	610263	Programming Language	3	----
660131	Manual Engineering Drawing	1	-----	660132	Computer Engineering Drawing	1	660131
				212102	General Chemistry Lab (1)	1	212101
Total		16		Total		17	

Second Year							
First Semester				Second Semester			
Course No.	Course Title	Cr. H.	Prerequisite	Course No.	Course Title	Cr. H.	Prerequisite
650260	Engineering Analysis (1)	3	250102	610262	Engineering Analysis (2)	3	250205
610218	Electrical Circuits	3	211102	250202	Calculus (3)	3	250102
250205	Linear Algebra and vector calculus	3	250102	620212	Dynamics	3	620211
620211	Statics	3	250102 +211101	650242	Electronics (1)	3	610218
111100	Military Science	3	----	610310	Electrical Machines	3	610218
620171	Engineering Workshop (1)	1	----	610216	Electrical Circuits Lab.	1	610218
----	University Compulsory Req.	1	----				
Total			17	Total		16	

Third Year							
First Semester				Second Semester			
Course No.	Course Title	Cr. H.	Prerequisite	Course No.	Course Title	Cr. H.	Prerequisite
620213	Solid Mechanics	3	620211	620320	Fluid Mechanics (1)	3	650260 +620212
610332	Instrumentation and Measurement	3	650242	620429	Fluid Mechanics Lab	1	620320
----	University Compulsory Req.	1	----	620420	Heat transfer (1)	3	620323 +650260
620323	Thermodynamics (1)	3	250102 +211102	----	Selective University Course	3	----
----	University Compulsory Req.	1	----	620434	Machine Design (1)	3	620213
640253	Engineering Skills	3	130108	611341	Introduction to Renewable Energy	3	211102
620172	Engineering Workshop (2)	1	620171				
Total		15		Total		16	

Fourth Year							
First Semester				Second Semester			
Course No.	Course Title	Cr. H.	Prerequisite	Course No.	Course Title	Cr. H.	Prerequisite
611312	Energy Economics and Management	3	611341	610414	Automatic Control	3	610332 +650260
611430	Electrical Power Systems	3	610310	611411	Energy Legislations	3	611312
620373	Properties of Engineering Materials	3	620320	611421	Solar Thermal Energy	3	611341 +620420
611301	Engineering Statistics	3	650260	610530	Power Electronics	3	650242
----	Selective University Course	3	----	----	Selective University Course	3	----
620427	Thermal Lab.	1	620420				
Total		16		Total		15	

Fourth Year			
Summer Semester			
Course No.	Course Title	Cr. H.	Prerequisite
611499	Engineering training	3	115 Cr. H.

Fifth Year							
First Semester				Second Semester			
Course No.	Course Title	Cr. H.	Prerequisite	Course No.	Course Title	Cr. H.	Prerequisite
611511	Environmental Impact of energy	3	611312	610550	Engineering Entrepreneurship	3	640253
611422	Photovoltaic Energy Systems	3	611341 +650242	611536	Wind Energy Lab.	1	611531
611531	Wind Energy Systems	3	611341 +620373	611526	Solar Energy Lab.	1	611421 +611422
----	Selective Department Course	3	----	611532	Energy Storage Systems and Fuel Cells	3	611341 +212101
----	Selective Department Course	3	----	----	Selective Department Course	3	----
611440	Engineering Project (1)	1	100 Cr. H.	611540	Engineering Project (2)	2	611440 +611499
Total		17		Total		13	