

## Study Plans - English

Major : Renewable Energy Engineering / Bachelor Plan Semester : 20171  
 Faculty : Engineering Section : Renewable Energy Engineering  
 Plan Hrs : 162 Plan Type : Major  
 Min Semester : 5 Semester / Semesters Edition : 2 Study Type: Regular Stud  
 Max Semester : 16 Semester / Semesters Thesis Type : Nothing

Category : University Requirement

Hrs : ( 27 ) Hrs

Group : Compulsory

Hrs : ( 18 ) Hrs

course	Course Name	Hrs	Prerequisite Courses	Prerequisit Hrs
0106117	Community Responsibility	3		
0106118	Arabic Communication Skills	3	(0106060)	
0106119	English Communication Skills	3	(0106070)	
0106129	Military Sciences	3		
0106130	Life Skills	3		
0106134	Scientific Thinking Skills	3		

Group : Elective

Hrs : ( 9 ) Hrs

course	Course Name	Hrs	Prerequisite Courses	Prerequisit Hrs
0106107	Contemporary Issues	3		
0106108	Safety and Security	3		
0106109	Introduction to Leadership	3		
0106115	Renewable Energy in Our Lives	3		
0106116	Computer Skills	3	(0106099)	
0106122	Human Rights	3		
0106123	(Jerusalem (Palestinian Cause	3		
0106180	Islamic Culture	3		

Category : Faculty Requirement

Hrs : ( 27 ) Hrs

Group : Compulsory

Hrs : ( 27 ) Hrs

course	Course Name	Hrs	Prerequisite Courses	Prerequisit Hrs
0106101	(Mathematics (1	3		
0106102	(Mathematics (2	3	(0106101)	
0106103	(Physics (1	3	(م)0106101	
0106105	.Physics (1) Lab	1	(0106103)	
0902112	Engineering Workshops 1	1		
0902113	Engineering Workshops 2	1	(0902112)	
0902116	Engineering & Communication Skills	3	(0106119)	

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Category Faculty Requirement

Hrs : ( 27 ) Hrs

Group Compulsory

Hrs : ( 27 ) Hrs

course	Course Name	Hrs	Prerequisite Courses	Prerequisite Hrs
0902214	Engineering Mathematics	3	(0106102)	
0902219	Probability and Engineering Statistics	3	(0106102)	
0902221	Statics	3	(0106103)	
0902323	Dynamics	3	(0902221)	

Category : Major Requirement

Hrs : ( 91 ) Hrs

Group : Compulsory

Hrs : ( 82 ) Hrs

course	Course Name	Hrs	Prerequisite Courses	Prerequisite Hrs
0902223	Strength of Materials	3	(0902221)	
0905210	Material Science & Engineering	3	(0106132)	
0905241	(Electrical Circuits (1	3	(0106104)	
0905242	(Electrical Circuits (2	3	(0905241)	
0905261	Introduction to Renewable Energy	3	(0905241)	
0905321	Thermodynamics	3	(0902241)	
0905325	Heat Transfer	3	(0905321)	
0905326	.Heat Transfer Lab	1	(0905325)	
0905342	Electric Machines	3	(0905242)	
0905343	.Electric Machines Lab	1	(0905342)	
0905345	Power Systems	3	(0905342)	
0905353	Electronics	3	(0905241)	
0905354	.Electronics and Circuits Lab	1	(0905353 & 0106106)	
0905361	Introduction to Solar Energy	3	(0905261)	
0905423	Energy Conversion & Storage	3	(0905345)	
0905450	Power Electronics	3	(0905353)	
0905452	.Power Systems & Electronics Lab	1	(0905450 & 0905345)	
0905456	Simulation	3	(0905361)	
0905457	.Simulation Lab	1	(0905456)	
0905458	Instrumentation Measurements	3	(0905463)	
0905459	.Instrumentation Measurements Lab	1	(0905458)	
0905460	(Wind Energy (1	3	(0905342)	
0905461	(Wind Energy (2	3	(0905460)	
0905462	.Wind Energy Lab	1	(0905461)	
0905463	(Solar Energy (1	3	(0905353 & 0905261)	
0905464	(Solar Energy (2	3	(0905463)	
0905465	.Solar Energy Lab	1	(0905464)	
0905525	Energy Efficiency	3	(0905325)	

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Category Major Requirement

Hrs : ( 91 ) Hrs

Group Compulsory

Hrs : ( 82 ) Hrs

course	Course Name	Hrs	Prerequisite Courses	Prerequisite Hrs
0905531	Economics and Energy Management	3	(0905423)	
0905532	Microeconomics and Energy Legislation	3	(0905531)	
0905570	Automatic Control System	3	(0905342 &0902214)	
0905571	Control System Lab	1	(0905570)	
0905591	Engineering Training	0		120
0905592	(Graduation Project (1	1		120
0905593	(Graduation Project (2	3	(0905592)	

Group : Elective

Hrs : ( 9 ) Hrs

course	Course Name	Hrs	Prerequisite Courses	Prerequisite Hrs
0905362	Biomass Energy	3	(0905261)	
0905373	Mechanical Vibrations	3	(0902323)	
0905466	Hydropower Energy	3	(0902241)	
0905467	Concentrated Photovoltaics	3	(0905464)	
0905468	Geothermal Energy	3	(0905325)	
0905527	Water Desalination by Solar Energy	3	(0905464)	
0905529	Air Conditioning Systems	3	(0905325)	
0905535	Environmental Impact of Energy	3	(0905531)	
0905562	Atomic and Alternative Energy	3	(0905261)	
0905569	Special Topics in Renewable Energy	3	(0905464)	

Category : Supportive Requirement

Hrs : ( 17 ) Hrs

Group : Compulsory

Hrs : ( 17 ) Hrs

course	Course Name	Hrs	Prerequisite Courses	Prerequisite Hrs
0106104	(Physics (2	3	(0106103)	
0106106	Physics (2) Lab	1	(0106105 &0106104)	
0106132	Engineering Chemistry	3		
0106135	Engineering Chemistry Lab	1	(0106132)	
0902241	Fluid Mechanics	3	(0902221)	
0905108	Engineering Drawing	2		
0905223	Fluid Mechanics Lab	1	(0902241)	
0905301	Numerical Techniques	3	(0106102)	

**Study Plans - English**

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**Category : Orientation Requirement****Hrs : ( 9 ) Hrs**

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**Group : Compulsory****Hrs : ( 9 ) Hrs**

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course	Course Name	Hrs	Prerequisite Courses	Prerequisit Hrs
0106060	Remedial Arabic	3		
0106070	Remedial English	3		
0106099	Remedial Computer Skills	3		