Department : Electrical Engineering Technology

Program :Renewable

Major Core Courses　　　　　　　　(42 Credits)

Code	No.	Course Name	Cr.	Hrs.	Theo.	Lab.	Field	Pre-req.
52	128	Electrical Machines	3	4	2	2	0	110/70 , 113/56
52	260	Power Electronics	3	4	2	2	0	115/70
70	110	Electrical Engineering Fundamentals	3	4	2	2	0	
70	115	Electrical Circuits	3	4	2	2	0	110/70 , 105/76
70	260	Electrical Power Systems	3	4	2	2	0	115/70
72	122	Introduction to Renewable Energy Technologies	3	3	3	0	0	
72	210	Smart and Renewable Energy Installation w/s	3	3	3	0	0	171/30
72	212	Energy Storage Systems	3	3	3	0	0	110/70
72	220	Photovoltaic Devices and Systems	3	3	3	0	0	260/52
72	221	Wind Energy Systems	3	3	3	0	0	260/52
72	222	Renewable Energy Control systems	3	3	3	0	0	115/70 , 106/76
72	311	Maintenance of Wind Turbine and PV System	3	3	3	0	0	220/72 , 221/72
72	399	Field Training	6	24	0	0	24	
			42	**65**	**31**	**10**	**24**	

General Core Courses　　　　　　　(18 Credits):

Code	No.	Course Name	Cr.	Hrs.	Theo.	Lab.	Field	Pre-req.
30	99	English (treatment)	0	5	5	0	0	
30	102	Technical English	3	3	3	0	0	30/99
76	105	Mathematics (1)	3	3	3	0	0	
76	106	Mathematics (2)	3	3	3	0	0	76/105
56	113	Basic Physics	3	4	2	2	0	
30	162	Technical Reports Writing	3	3	3	0	0	30/102
30	171	Comminucation Skills	3	3	3	0	0	30/102
			18	**19**	**17**	**2**	**0**	

Total	Cr.	Hrs.
	75	101

Major Elective Courses　　　　　(6 Credits)

Code	No.	Course Name	Cr.	Hrs.	Theo.	Lab.	Field	Pre-req.
52	233	Electrical Measurements	3	4	2	2	0	115/70
52	340	Fractional HP Machines	3	4	2	2	0	115/70
70	216	Advanced Electrical Circuits	3	4	2	2	0	115/70
70	261	Power System Operation	3	4	2	2	0	260/70
70	284	Computer Applications	3	4	2	2	0	
70	286	Advanced Computer Applications	3	4	2	2	0	284/70
70	292	Electrical Calculations	3	4	2	2	0	110/70
72	297	Projects	3	4	2	2	0	
72	313	Vehicular Power Systems	3	3	3	0	0	260/52
72	314	Biomass and Fuel Cell Energy Systems	3	3	3	0	0	261/52
72	315	Concentrated Solar Power	3	3	3	0	0	220/72

General Elective Courses　　　　(3 Credits)

Code	No.	Course Name	Cr.	Hrs.	Theo.	Lab.	Field	Pre-req.
3	112	Work Ethics and Loyalty	3	3	3	0	0	
7	141	Art Education (1)	1	2	0	2	0	
7	142	Art Education (2)	1	2	0	2	0	141/07
8	110	Physical Education	1	2	0	2	0	
10	104	Research and Libraries	1	2	0	2	0	
13	151	Music Education	1	2	0	2	0	
15	114	Industrial Psychology	2	2	2	0	0	
21	164	Accounting	2	2	2	0	0	
22	104	Small Projects Managment	2	2	2	0	0	
25	166	Industrial Economics	2	2	2	0	0	
30	107	French Language General (1)	2	3	3	0	0	
57	102	Introduction of Contracts and Specification	3	3	3	0	0	
64	268	Creativity and Design in Technology	2	2	2	0	0	
65	205	Automotive Mechanics	3	3	3	0	0	
66	135	Energy and Water Conservation	3	3	3	0	0	
70	112	Green Energy	3	3	3	0	0	
79	103	Oil Culture	3	3	3	0	0	

General Compulsory Courses　　(6 Credits)

Code	No.	Course Name	Cr.	Hrs.	Theo.	Lab.	Field	Pre-req.
1	101	Islamic Culture	2	2	2	0	0	
64	252	Industrial Management	2	2	2	0	0	
81	298	Industrial Safety	2	2	2	0	0	102/30
			6	**6**	**6**			