

Level	Course Code	Course Title	Required Or Elective	Pre-Requisite Courses	Credit Hours	Type of requirements
Level 1	ENG26111	General English-1	Required	-	4	College
	CL26101	Communication Skills	Required	-	2	Institution
	SLM26101	Introduction to Islamic Culture	Required	-	2	Institution
	CCS26101	Computer Skills	Required	-	2	Institution
	PHYS26114	General Physics	Required	-	4	College
	ARB26101	Arabic Language Skills	Required	-	2	Institution
		Total Term Credit Hours			16	
Level 2	ENG26114	General English-2	Required	ENG26111	4	College
	PSY26101	Learning and Thinking Skills	Required	-	2	Institution
	SLM26102	Family and community In Islam	Required	-	2	Institution
	CHM26113	General Chemistry	Required	-	4	College
	MATH26111	Calculus 1	Required	-	3	College
		Total Term Credit Hours			15	31
Level 3	ENG26121	English Language for Specific Purpose	Required	ENG26114	4(0,2,0)	College
	PHYS26211	Advanced Physics	Required	PHYS26114	3(2,2,0)	College
	MATH26211	Differentiation and Integration -1	Required	MATH26111	3(2,2,0)	College
	REE26221	Introduction to Renewable Energy	Required	-	2(1,2,0)	Program
	EE26221	Introduction to Engineering Design	Required		2(2,0,0)	Program
	CE26221	Engineering Mechanics	Required	-	3(2,2,0)	Program
		Total Term Credit Hours			17	48
Level 4	Xxxxxx	University Elective	Elective	-	2	Institution
	BUA26201	Volunteer Work	Required	-	1(1,0,0)	Institution
	MATH26213	Differentiation and Integration – 2	Required	MATH26211	3(2,2,0)	College

Level	Course Code	Course Title	Required Or Elective	Pre-Requisite Courses	Credit Hours	Type of requirements
	ME26222	Production Technology and Workshops	Required		2(1,0,2)	Program
	ME26221	Engineering Drawing	Required	-	3(1,0,4)	Program
	MATH26212	Algebra and Analytical geometry	Required	-	3(2,2,0)	College
	REE26251	Principle of Electric Circuits	Required	PHYS26211	3(2,1,1)	Program
		Total Term Credit Hours			17	65
Level 5	BUA26302	Entrepreneurship	Required	-	1	Institution
	EE26324	Computer Programming	Required	MATH26213	3(1,2,2)	Program
	REE26341	Thermodynamics	Required	PHYS26211	3(2,1,1)	Program
	REE26352	Applied Electronic Devices	Required	PHYS26211	3(2,1,1)	Program
	MATH26314	Differential Equations	Required	MATH26213	3(2,2,0)	College
	REE26353	Electric Circuits Analysis	Required	REE26251	3(2,1,1)	Program
		Total Term Credit Hours			16	81
Level 6	MATH26315	Numerical Analysis	Required	MATH26314	3(2,2,0)	College
	REE26342	Fluid Mechanics	Required	PHYS26211	3(2,1,1)	Program
	REE26354	Electrical Power Systems	Required	REE26353	3(2,1,1)	Program
	IE26322	Engineering Statistics and Probability	Required	MATH26211	3(2,2,0)	Program
	REE26322	Measurements and Instrumentations	Required	REE26251 REE26352	3(2,1,1)	Program
	REE26343	Materials Science and Engineering	Required	-	3(2,1,1)	Program
		Total Term Credit Hours			18	99
Level 7	CE26471	Principles of Scientific Research in Engineering	Required	-	2(2,0,0)	Program
	IE26423	Engineering Economics	Required	-	2(2,0,0)	Program
	REE26461	Modern Control Systems	Required	REE26353	3(2,1,1)	Program
	REE26444	Heat Transfer	Required	REE26341	3(2,1,1)	Program
	REE26455	Power Electronics	Required	REE26352	3(2,1,1)	Program
	REE26456	Electrical Machines	Required	REE26353	3(2,1,1)	Program
		Total Term Credit Hours			16	115
Level 8	IE26524	Engineering Project Management	Required	-	2(2,0,0)	Program
	REE26423	Electric Power Plants	Required	REE26341	2(1,2,0)	Program
	REE26433	Solar Thermal Energy Systems	Required	REE26343	2(1,1,1)	Program
	REE26431	Solar PV Technology	Required	REE26343 REE26352	3(2,1,1)	Program
	REE26424	Energy Economics and Efficiency	Required	-	2(1,2,0)	Program
	REE26432	Fuel Cells and Energy Storage Systems	Required	REE26341	3(2,1,1)	Program
	REE26471	Field Training- 1	Required	110	4(0,0,8)	Program
		Total Term Credit Hours			18	
Level 9	REE26534	Wind Energy Technology	Required	-	3(2,1,1)	Program
	REE26545	Machine Design	Required	REE26343	3(2,1,1)	Program
	REE26535	Introduction to Green Building Design	Required	REE26431	2(1,2,0)	Program
	REE26536	Nuclear Energy Technology	Required	REE26423	2(1,2,0)	Program
	REE26557	Electrical Smart Grid	Required	REE26354	3(2,1,1)	Program
	REE26572	Graduation Project – 1	Required	125	1(2proj.)	Program
	REE265xx	Elective Course – 1	Required	xx	2(1,1,1)	Program
		Total Term Credit Hours			16	

Level	Course Code	Course Title	Required Or Elective	Pre-Requisite Courses	Credit Hours	Type of requirements
Level 10	REE26558	Special Machines for Renewable Energy	Required	REE26456	3(2,1,1)	Program
	REE26573	Field Training- 2	Required	120 Crd hours	4(0,0,8)	Program
	REE26537	Bio-Energy Technology	Required	REE26423	3(2,1,1)	Program
	REE26574	Graduation Project – 2	Required	REE26572	3(6proj.)	Program
	REE265xx	Elective Course – 2	Required	xx	2(1,2,0)	Program
		Total Term Credit Hours			15	
		Total Program Credit Hours			164	

a. University Elective course list.

Course Code	Course Title	Pre-Requisite Courses	Credit Hours
SLM26103	Economy in Islam	-	2
SLM26104	Contemporary Issues	-	2
ARB26102	Arabic Editing	-	2
HIS26201	History of Kingdom of Saudi Arabia	-	2
HIS26211	Studies in biography of the Prophet	-	2
ENG26224	Writing for specific Purpose	-	2
MDS26201	Health And Fitness	-	2
ED26201	Youth and the values of Citizenship	-	2
TEC26212	E-Learning applications	-	2

b. Program Elective-1 course list.

Course Code	Course Title	Pre-Requisite Courses	Credit Hours
REE26559	Electrical Distribution Systems	REE26354	2 (1,1,1)
REE26546	Internal Combustion Engines	REE26341	2 (1,1,1)
REE26562	Microcontrollers and Embedded Systems	REE26455	2 (1,1,1)
REE26563	Signals and Systems	REE26353	2 (1,1,1)

c. Program Elective-2 course list.

Course Code	Course Title	Pre-Requisite Courses	Credit Hours
REE26538	Solar PV Systems for Buildings	REE26431	2 (1,2,0)
REE26525	Energy Conversion and Storage Applications	REE26432	2 (1,2,0)
REE26526	Tidal and Hydroelectric Energy Systems	REE26423	2 (1,2,0)
REE26539	Geothermal Energy Technology	REE26423	2 (1,2,0)