



First Semester 2021/2022

First Year							
First Semester				Second Semester			
Course #	Course name	CH	Prerequisite	Course #	Course name	CH	Prerequisite
1501110	Calculus 1	3	-	0810112	Calculus 2	3	1501110
1501120	General Physics 1	3	-	1501220	General Physics 2	3	1501120
1501121	General Physics Lab 1	1	1501120***	1501221	General Physics Lab 2	1	1501220***
1401123	Arabic Language I**	3	-	0802107	Engineering Workshop	1	-
1401124	English Language I**	3	-	0802108	Descriptive Geometry	1	-
1722100	General Chemistry	3	-	0100103	Military Science*	3	-
				1401150	National Education	3	-
				1722101	General Chemistry Lab.	1	1722100***
Semester Hours		16		Semester Hours		16	
Second Year							
First Semester				Second Semester			
0802205	Engineering Materials	3	1501130	0802211	Dynamics	3	0805221
0802206	Engineering Materials lab.	1	0802205***	0802222	Thermodynamics 2	3	0802221
0802221	Thermodynamics 1	3	1501120	8022240	Strength of materials (1)	3	0805221
0805106	Engineering Drawing	1	-	0802225	Strength of Materials Lab.	1	8022240***
0805221	Statics	3	1501120	0802323	Thermodynamics lab	1	0802221***
0801201	Computer Skills 2	3	Passing Skills Test	0810203	Advanced Eng. math. 1	3	0810112
0810220	Engineering Analysis	3	0810112	1401116	Islamic Education	3	-
Semester Hours		17		Semester Hours		17	
Third Year							
First Semester				Second Semester			
0802306	Mechanical Drawing	1	0805106	0802315	Applied Mathematics for Eng.	3	0810203
0802331	Theory of Machines	3	0802211	0802335	Machine Dynamics	3	0802331
0802341	Fluid Mechanics 1	3	0802221	0803310	Manufacturing Processes 1	3	0802205
0802342	Fluid Mechanics Lab.	1	0802341***	0803323	Engineering Economy and Management	3	0810112
0809200	Principles of Electrical Eng.	2	1501220	0809334	Principles Electrical Machinery	2	0809200
0810302	Numerical Analysis	3	0810201	0809335	Electrical Machinery Lab.	1	0809334***
HSS010	Community Service	0	-	0810202	Engineering Application lab	1	0810201
-	University mandatory(Entrepreneurship and innovation+ Leadership and social accountability+ Life skills)	3	-	-	-	-	-
Semester Hours		16		Semester Hours		16	
Fourth Year							
First Semester				Second Semester			
0802430	Machine Design 1	3	0802335+0802224	0802436	Machine Design 2	3	0802430
0802455	Heat Transfer	3	0802222+0802341	0802461	Engineering Measurements and Instrumentation	3	0802315
0802452	Heat Transfer Lab.	1	0802455 ***	0802462	Engineering Measurements and Instrumentation Lab	1	0802461***
0802471	Mechanical Vibrations	3	0802211+0810203	0802466	Plumping Systems Design	3	0802341
0802472	Dynamics & Vibrations Lab.	1	0802471***	0802473	Automatic Control Systems	3	0802471
0805200	Ethics & Technical Writing	2	1401120	0802474	Automatic Control Systems Lab.	1	0802473***
-	University Elective	3	-	-	Department Elective	3	-
Semester Hours		16		Semester Hours		17	
Engineering training (3 CHRS) (passed 115 CHRS)							
Fifth Year							
First Semester				Second Semester			
				0803556	Computer Aided Design and Manufacturing Lab	1	0802508
0802482	HVAC 1	3	0802455	0802509	Combustion & Internal Combustion Engines	3	0802455
0802512	Design and Control of Thermal and Hydraulic Systems	3	0802455	0802575	Internal Combustion Engines Lab	1	0802509***
0802508	Mechanical CAD	3	0802436+0802306	0802587	Graduation Project 2	2	0802585
0802585	Graduation Project 1	1	Pass 120 CH	-	Department Elective	3	-
-	Department Elective	3	-	-	University Elective	3	-
Semester Hours		13		Semester Hours		13	