

Advisement plane 2025-2026

First Year							
First Semester				Second Semester			
Course No.	Course Title	Cr. H.	Prerequisite	Course No.	Course Title	Cr. H.	Prerequisite
116103	Arabic language skills (1)	3	114099	116108	English language skills (2)	3	116107
116107	English language skills (1)	3	130099	250102	Calculus (2)	3	216111
216111	Calculus (1)	3	-----	216132	General physics (2)	3	216131
216131	General physics (1)	3	-----	216143	General chemistry lab.	1	216141
216141	General chemistry (1)	3	-----	660132	Computer Engineering drawing (AUTOCAD)	1	660131
660131	Manual engineering drawing	1	-----	116101	National Education	3	-----
				610263	Programing language	3	750099
Total		16		Total		17	

Second Year							
First Semester				Second Semester			
Course No.	Course Title	Cr. H.	Prerequisite	Course No.	Course Title	Cr. H.	Prerequisite
250202	Calculus (3)	3	250102	650260	Engineering analysis (1)	3	250102
620211	Statics	3	250102+216131	620172	Engineering workshops (2)	1	620171
620171	Engineering workshops (1)	1	-----	620212	Dynamics	3	620211
640253	Engineering skills	3	130108	620213	Strength Of Materials	3	620211
620232	Mechanical drawing	2	660132	-----	University free subject	3	----
116102	Entrepreneurship, Innovation and leadership skills	3	-----	620274	Material science	3	216141
-----	University free subject	3	-----	620314(*)	Strength of materials lab	1	620213
Total		18		Total		17	

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Third Year							
First Semester				Second Semester			
Course No.	Course Title	Cr. H.	Prerequisite	Course No.	Course Title	Cr. H.	Prerequisite
610262	Engineering analysis (2)	3	650260	620324	Thermodynamics 2	3	620323
620323	Thermodynamics (1)	3	216132+ 250102	620344	Engineering measurements	3	610214
620320	Fluid Mechanics (1)	3	620212+650260	620420	Heat transfer 1	3	620323+ 650260
620333	Theory of machines	3	620212	620428	Fluid Mechanics (2)	3	620320+610262
610214	Electrical Engineering	3	216132	620434	Machine Design (1)	3	620213
610219	Electrical Engineering lab	1	610214(*)	620429	Fluid Mechanics lab	1	620428(*)
620345	Engineering measurements lab	1	620344(*)	620427	Thermal lab	1	620420(*)
Total		17		Total		17	

Fourth Year							
First Semester				Second Semester			
Course No.	Course Title	Cr. H.	Prerequisite	Course No.	Course Title	Cr. H.	Prerequisite
620301	Applied Engineering mathematics	3	650260+620420	620414	Mechanical vibrations	3	650260+620212
620435	Machine design (2)	3	620434+620232	620415	Mechanical vibrations lab	1	620414(*)
620436	Exercises in machine design	1	620435(*)	-----	Department free subject	3	-----
620523	Design of Sanitary systems	3	620320	620529	Internal combustion engines	3	620324
-----	Department free subject	3	----	610550	Entrepreneurship	3	640253
620437	Reverse Engineering	3	620435	620520	Internal combustion engine lab	1	620529(*)
Total		16		Total		14	

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Fourth Year			
Summer Semester			
Course No.	Course Title	Cr. H.	Prerequisite
620499	Engineering Training	3	(115)Cr. Hr.

Fifth Year							
First Semester				Second Semester			
Course No.	Course Title	Cr. H.	Prerequisite	Course No.	Course Title	Cr. H.	Prerequisite
620522	Air conditioning (1)	3	620420	620302	Finite Element Method	3	620301
-----	Department free subject	3	-----	620540	Engineering project 2	2	620499+ 620440
620440	Engineering project 1	1	(100) Cr.Hr	620477	Production processes	3	620274+620172
620443	Automatic Control	3	620344	620457	Control systems lab	1	620443(*)
115001	Military science	3	-----	-----	University free subject	3	----
Total		13		Total		12	