

1 *Graduation Requirements*

Requirements	Credit hours
University Requirements	6
College Requirements	26
Department Requirements	105
Department Elective Classes	6
Total	143

2 *University Requirements: 6 Credit Hours*

Course Code	Course Title	Cr. Hours	Weekly hours		
			Lec.	Tut.	Lab.
U101	Human Rights & Democracy	1	1	-	-
U102	Computer Science	2	1	-	2
U103	English Language	2	2	-	-
U104	Arabic Language	1	1	-	-
Total		6	5	-	2
			7		

3 College Requirements: 26 Credit Hours

No.	Course Code	Course Title	Cr. Hours	Weekly hours		
				Lec.	Tut.	Lab.
1	E101	Mathematics I	3	3	1	-
2	E102	Mathematics II	3	3	1	-
3	E103	Physics	2	2	-	-
4	E104	Engineering Drawing I	1		-	3
5	E105	Engineering Drawing II	1		-	3
6	E106	Workshop Skills I	1		-	3
7	E107	Workshop Skills II	1		-	3
8	E108	Programming	2	1	-	2
		TOTAL for 1st Year	14	9	2	14
9	E201	Applied Mathematics I	3	3	1	-
10	E202	Applied Mathematics II	3	3	1	-
		TOTAL for 2nd Year	6	6	2	-
		TOTAL for 3rd Year	0	0	-	-
11	E401	Engineering Profession Ethics	2	2	-	-
12	E402	Eng. Graduation Project I	1	-	-	2
13	E403	Eng. Graduation Project II	1	-	-	2
14	E404	Engineering Economy	2	2	-	-
		TOTAL for 4th Year	6	4	-	4
		Total	26	21	4	18
				43		

Course No.	Course Title	Cr. Hours	Weekly hours		
			Lec.	Tut.	Lab.
ME107	Chemistry	3	3	---	---
ME101	Principles of manufacturing process	2	2	1	---
ME103	Electric Circuits	3	2	1	2
ME106	Statics	5	5	1	---
ME201	Strength of Materials	5	5	1	---
ME202	Fluid Mechanics I	4	4	1	---
ME204	Engineering of Metallurgy	3	3	1	---
ME212	Electrical Machines	3	3	1	---
ME205	Lab. 2A	1	---	---	3
ME207	Dynamics	4	4	1	---
ME206	Applied Computer Programming	2	1	---	2
ME208	Mechanical Drawing and CAD	2	---	---	6
ME210	Thermodynamics	4	4	1	---
ME211	Lab. 2B	1	---	---	2
ME301	Mechanics of Machines	4	4	1	---
ME306	Internal Combustion Engines	4	4	1	---
ME303	Engineering Analysis	2	2	1	---
ME302	Engineering Statistics	3	3	---	---
ME304	Fluid Mechanics II	4	4	1	---
ME305	Lab. 3A	1	---	---	3
ME307	Engineering Numerical Methods	3	2	1	2
ME308	Manufacturing Process	4	4	1	---
ME313	Operations Research	3	3	---	---
ME311	Heat Transfer	4	4	1	---
ME310	Engineering Materials	3	3	1	---
ME314	Lab. 3B	1	---	---	2
ME401	Design of Machine Elements I	3	3	1	---
ME402	Control Engineering	4	4	1	---
ME403	Industrial Engineering	2	2	1	---
ME404	Mechanical Vibrations	4	4	1	---
ME405	Air conditioning	5	5	1	---
ME408	Lab. 4A	1	---	---	3
ME409	Design of Machine Elements II	3	3	1	---
ME411	CAE	2	1	---	2
ME407	Power Plant	2	2	1	---
ME412	Lab. 4B	1	---	---	3
Total		105	93	24	30

ME Selective classes

Course No	Course Title	Cr. Hours	Weekly hours
ME421	Fracture Mechanics	3	3
ME429	Finite element method	3	3
ME423	Solar energy	3	3
ME424	Aerodynamics	3	3
ME425	Refrigeration engineering	3	3
ME426	Corrosion engineering	3	3
ME427	Failure analysis	3	3
ME428	Mechanics of composite materials	3	3

First Year

Course No.	First Semester					Course No.	Second Semester				
	Course Title	Credit	Weekly hours				Course Title	Credit	Weekly hours		
			Lec.	Tut.	Lab.				Lec.	Tut.	Lab.
E101	Mathematics1	3	3	1	---	E102	MathematicsII	3	3	1	---
E103	Physics	2	2	---	---	E108	Programming	2	1	---	2
E104	Engineering Drawing I	1	---	---	3	E105	Engineering Drawing II	1	---	---	3
E106	Workshop Skills I	1	---	---	3	E107	Workshop Skills II	1	---	---	3
U101	Human Rights & Democracy	1	1	---	---	ME101	Principles of Manufacturing Process	2	2	1	---
ME107	Chemistry	3	3	---	---	ME103	Electric Circuits	3	2	1	2
U102	Computer Science	2	1	---	2	ME106	Statics	5	5	1	---
U103	English Language	2	2	---	---	U104	Arabic Language	1	1	---	---
	Total	15	12	1	8		Total	18	14	4	10

Second Year

Course No.	First Semester					Course No.	Second Semester				
	Course Title	Credit	Weekly hours				Course Title	Credit	Weekly hours		
			Lec.	Tut.	Lab.				Lec.	Tut.	Lab.
ME201	Strength of Materials	5	5	1	---	ME207	Dynamics	4	4	1	---
E201	Applied Mathematics 1	3	3	1	---	ME212	Electrical Machines	3	3	1	---
ME202	Fluid Mechanics I	4	4	1	---	E202	Applied Mathematics 1I	3	3	1	---
ME204	Engineering of Metallurgy	3	3	1	---	ME208	Mechanical Drawing and CAD	2	---	---	6
ME206	Applied Computer Programming	2	1	---	2	ME210	Thermodynamics	4	4	1	---
ME205	Lab. 2A	1	---	---	3	ME211	Lab. 2B	1	---	---	2
	Total	18	16	4	5		Total	17	14	4	8

Third Year

Course No.	First Semester					Course No.	Second Semester				
	Course Title	Credit	Weekly hours				Course Title	Credit	Weekly hours		
			Lec.	Tut.	Lab.				Lec.	Tut.	Lab.
ME301	Mechanics of Machines	4	4	1	---	ME307	Engineering Numerical Methods	3	2	1	2
ME306	Internal Combustion Engines	4	4	1	---	ME308	Manufacturing Process	4	4	1	---
ME303	Engineering Analysis	2	2	1	---	ME313	Operations Research	3	3	---	---
ME302	Engineering Statistics	3	3	---	---	ME311	Heat Transfer	4	4	1	---
ME304	Fluid Mechanics II	4	4	1	---	ME310	Engineering Materials	3	3	1	---
ME305	Lab. 3A	1	---	---	3	ME314	Lab. 3B	1	---	---	2
	Total	18	17	4	3		Total	18	16	4	4

Fourth Year

Course No.	First Semester					Course No.	Second Semester				
	Course Title	Credit	Weekly hours				Course Title	Credit	Weekly hours		
			Lec.	Tut.	Lab.				Lec.	Tut.	Lab.
ME401	Design of Machine Elements I	3	3	1	---	ME409	Design of Machine Elements II	3	3	1	---
E404	Engineering Economy	2	2	---	---	ME402	Control Engineering	4	4	1	---
ME403	Industrial Engineering	2	2	1	---	ME411	CAE	2	1	---	2
ME404	Mechanical Vibrations	4	4	1	---	ME407	Power Plant	2	2	1	---
ME405	Air Conditioning	5	5	1	---		ME Elective Class	3	3	---	---
E402	Eng. Graduation Project I	1	---	---	2		ME Elective Class	3	3	---	---
ME408	Lab. 4A	1	---	---	3	E403	Eng. Graduation Project II	1	---	---	2
E401	Engineering Profession Ethics	2	2	---	---	ME412	Lab. 4B	1	---	---	3
	Total	20	18	4	5		Total	19	16	3	7

Total credit = 143 units