

Department Of Mechanical Engineering
Study Plan for the B.Sc. Degree Course 2020-2021

		First semester				Second Semester								
	N	SUBJECT	Th	A	T	Un	SUBJECT				Th	A	T	Un
	FIRST YEAR	1	Human Rights	1	-	-	1	English Language I	2	-	-	2		
2		Chemistry	2	-	-	2	Arabic Language I	1	-	-	1			
3		Mathematics I	3	-	1	3	Mathematics II	3	-	1	3			
4		Computer Fundamentals and Programming I	1	2	-	2	Computer Fundamentals and Programming II	1	2	-	2			
5		Engineering Drawing I	1	2	-	2	Engineering Drawing II	1	2	-	2			
6		Statics	3	-	1	3	Dynamics	3	-	1	3			
7		Physics	2	2	-	3	Workshop Technology	-	3	-	0			
8		Electrical Physics	2	2	-	3	Physics of Materials	2	-	-	2			
TOTAL			15	8	2	19	TOTAL		13	7	2	15		
SECOND YEAR	N	SUBJECT	Th	A	T	Un	SUBJECT				Th	A	T	Un
	1	Principles of Management	1	-	-	1	Democracy	1	-	-	1			
	2	Arabic Language II	1	-	-	1	Manufacturing Processes	2	-	-	2			
	3	English Language II	2	-	-	2	Mechanical Constructions	1	3	-	2			
	4	Mathematics III	3	-	1	3	Mathematics IV	3	-	1	3			
	5	Mechanics of Materials I	2	-	1	2	Mechanics of Materials II	2	2	1	3			
	6	Fluid Mechanics I	2	-	1	2	Fluid Mechanics II	2	2	1	3			
	7	Thermodynamics I	2	2	1	3	Thermodynamics II	2	-	1	2			
	8	Metallurgy	2	2	-	3	-	-	-	-	-			
TOTAL			15	4	4	17	TOTAL		13	7	4	16		
THIRD YEAR	N	SUBJECT	Th	A	T	Un	SUBJECT				Th	A	T	Un
	1	Engineering Statistics	2	-	-	2	English Language III	2	-	-	2			
	2	Eng. and Num. Analysis I	3	-	-	3	Eng. and Num. Analysis II	3	-	-	3			
	3	Heat Transfer I	2	-	1	2	Heat Transfer II	2	2	-	3			
	4	Internal Combustion Engines I	2	2	-	3	Internal Combustion Engines . II	2	-	-	2			
	5	Machine Design I	3	-	-	3	Machine Design II	3	-	-	3			
	6	Mechanics of Machines I	2	2	-	3	Mechanics of Machines II	2	-	-	2			
	7	Industrial Engineering	2	-	-	2	Production Engineering	2	-	-	2			
	8	Electrical Machines	2	2	-	3	Mechanical Vibrations	2	2	1	3			
9	-	-	-	-	-	Gas Dynamics	2	-	1	2				
TOTAL			18	6	1	21	TOTAL		20	4	2	22		
FOURTH YEAR	N	SUBJECT	Th	A	T	Un	SUBJECT				Th	A	T	Un
	1	Project	-	4	-	2	Project	-	4	-	2			
	2	English Language IV	2	-	-	2	Professional Ethics	1	-	-	1			
	3	Control Engineering and Measurements I	3	-	-	3	Control Engineering and Measurements II	3	2	-	4			
	4	Air-Conditioning and Refrigeration I	3	2	-	4	Air-Conditioning and Refrigeration II	3	-	-	3			
	5	Power Plants I	2	-	-	2	Power Plants II	1	2	1	2			
	6	Advanced Computer programing	2	2	-	3	Computer Applications	2	2	-	3			
	7	Turbo- Machinery	2	-	1	2	Mechanical Systems Design	3	-	1	3			
	8	Elective I	2	-	1	2	Elective II	2	-	1	2			
TOTAL			16	8	2	20	TOTAL		15	10	3	20		

Approved Electives:

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| <ol style="list-style-type: none"> 1. Nanotechnology. 2. Tool Design 3. CAD CAM system 4. Selected Topics in Advanced Applied Mechanics 5. Composite Materials 6. Analysis and Synthesis of Linkages 7. Selected Topics in Dynamics 8. Selected Topics in Manufacturing Technology | <ol style="list-style-type: none"> 9. Friction and Wear in Solids 10. Two Phase Heat Transfer 11. Heat Exchanger Design 12. Aerodynamics 13. Renewable Energy 15. Solar Energy 16. Engineering Economics |
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