

**First Year**

Semester I						Semester II					
Category	Subject	Hours			Units	Category	Subject	Hours			Units
		Theoretical	Tutorial	Practical				Theoretical	Tutorial	Practical	
College requirement	Calculus-I	3	1	-	3	College requirement	Calculus-II	3	1	-	3
College requirement	Physics	3	-	3	4	Department requirement	Applied physics	3	-	3	4
College requirement	Computer Science	2	1	3	3	College requirement	Engineering Mechanics (Static)	3	1	-	3
College requirement	Chemistry	3	-	3	4	College requirement	Engineering Drawing	2	2	3	3
College requirement	Fundamentals of Electrical Engineering	2	1	2	3	Department requirement	Principles of Manufacturing Process	2	1	2	3
University requirement	English Language-I	2	-	-	2	University requirement	Arabic Language	٢	-	-	٢
University requirement	Human rights	1	-	-	1	University requirement	Democracy	1	-	-	1
<b>Total Hours and Units</b>		<b>16</b>	<b>3</b>	<b>11</b>	<b>19</b>	<b>Total Hours and Units</b>		<b>16</b>	<b>5</b>	<b>8</b>	<b>١٩</b>

## Second Year

Semester I						Semester II					
Category	Subject	Hours			Units	Category	Subject	Hours			Units
		Theoretical	Tutorial	Practical				Theoretical	Tutorial	Practical	
College requirement	Calculus-III	3	1	-	3	College requirement	Calculus-IV	3	1	-	3
Department requirement	Fluid Mechanics-I	2	1	2	3	Department requirement	Fluid Mechanics-II	2	1	2	3
Department requirement	Strength of Materials-I	2	1	2	3	Department requirement	Strength of Materials-II	2	1	2	3
Department requirement	Thermodynamics-I	2	1	2	3	Department requirement	Thermodynamics-II	2	1	2	3
Department requirement	Engineering Mechanics (Dynamics)	2	2	-	2	Department requirement	Engineering Metallurgy	2	2	2	3
Department requirement	Computer Programming	2	-	2	3	Department requirement	Electrical Machines	2	-	2	3
Department requirement	Mechanical drawing	2	1	2	3	University requirement	English Language-II	2	-	-	2
<b>Total Hours and Units</b>		<b>15</b>	<b>7</b>	<b>10</b>	<b>20</b>	<b>Total Hours and Units</b>		<b>15</b>	<b>6</b>	<b>10</b>	<b>20</b>

### Third Year

Semester I						Semester II					
Category	Subject	Hours			Units	Category	Subject	Hours			Units
		Theoretical	Tutorial	Practical				Theoretical	Tutorial	Practical	
Department requirement	Engineering Analysis	3	1	-	3	College requirement	Engineering Numerical Methods	2	1	3	3
Department requirement	Heat Transfer-I	2	1	2	3	Department requirement	Heat Transfer-II	2	1	2	3
Department requirement	Theory of Machines-I	2	1	2	3	Department requirement	Theory of Machines-II	2	1	2	3
Department requirement	Internal Combustion Engines	2	2	2	3	Department requirement	Manufacturing Processes	3	1	-	3
University requirement	Ethics & Leadership Skills	2	-	-	2	Department requirement	Gas Dynamics	3	1	-	3
College requirement	Engineering Statistics	3	-	-	3	Department requirement	Engineering Economy	3	-	-	3
University requirement	English Language-III	2	-	-	2	Department requirement	Industrial Engineering & Safety	2	1	-	2
Department requirement	Research Methodology	1	-	-	1						
<b>Total Hours and Units</b>		<b>17</b>	<b>5</b>	<b>6</b>	<b>20</b>	<b>Total Hours and Units</b>		<b>17</b>	<b>6</b>	<b>7</b>	<b>20</b>

## Fourth Year

Semester I						Semester II					
Category	Subject	Hours			Units	Category	Subject	Hours			Units
		Theoretical	Tutorial	Practical				Theoretical	Tutorial	Practical	
Department requirement	Design of Machine Elements-I	3	1	-	3	Department requirement	Design of Machine Elements-II	3	1	-	3
Department requirement	Air Conditioning	2	1	2	3	Department requirement	Refrigeration	2	1	2	3
Department requirement	Power Plants	2	1	2	3	Department requirement	Control Engineering & Measurements	3	1	-	3
Department requirement	Mechanical Vibrations	2	1	2	3	University requirement	English Language-IV	2	-	-	2
Department requirement	Engineering Materials	3	-	-	3	Department requirement	Elective-II	2	-	-	2
Department requirement	Elective-I	2	-	-	2	Department requirement	Elective-III	2	-	-	2
Department requirement	Final Year Project-I	2	1	3	3	Department requirement	Final Year Project-II	2	1	3	3
<b>Total Hours and Units</b>		<b>16</b>	<b>5</b>	<b>9</b>	<b>20</b>	<b>Total Hours and Units</b>		<b>16</b>	<b>4</b>	<b>5</b>	<b>18</b>