

**Branch: MECHANICAL ENGINEERING**  
Semester Pattern (Choice Based Credit Grade System)

SEMESTER: SEVENTH																	
Sr. No.	Subject Code	Subject	TEACHING SCHEME					EXAMINATION SCHEME									
			HOURS / WEEK			CREDITS	THEORY						PRACTICAL				
			Lecture	Tutorial	PID		Duration Of Paper (Hr.)	Max. Marks Theory Paper	Internal Marks	Total	Min. Passing Marks	Max. Marks		Min. Passing Marks			
												Int.	Ext.				
<b>THEORY</b>																	
01	7ME01	Mechatronics	3	--	--	3	3	3	80	20	100	40	--	--	--	--	
02	7ME02	Productivity Techniques	3	--	--	3	3	3	80	20	100	40	--	--	--	--	
03	7ME03	Industrial Management & Costing	3	--	--	3	3	3	80	20	100	40	--	--	--	--	
04	7ME04	Energy Conversion - II	3	--	--	3	3	3	80	20	100	40	--	--	--	--	
05	7ME05	Professional Elective- II	3	--	--	3	3	3	80	20	100	40	--	--	--	--	
<b>PRACTICALS / DRAWING / DESIGN</b>																	
06	7ME06	Mechatronics- lab.	--	--	2	2	1	--	--	--	--	--	25	25	50	25	
07	7ME07	Energy Conversion – II- lab.	--	--	2	2	1	--	--	--	--	--	25	25	50	25	
08	7ME08	Prof. Elective- II – lab.	--	--	2	2	1	--	--	--	--	--	25	25	50	25	
09	7ME09	Technical Seminar & Project	--	--	8	8	4	--	--	--	--	--	50	--	50	25	
<b>Total</b>			<b>15</b>	<b>0</b>	<b>14</b>	<b>29</b>	<b>22</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>500</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>200</b>	<b>--</b>	
<b>Grand Total</b>															<b>700</b>		
<b>7ME05: Prof. Elect. -II:</b> (i) Computer Integrated Manufacturing (ii) Automobile Engineering (iii) Design of Transmission Systems (iv) Computational Fluid Dynamics																	

**SEMESTER: EIGHTH**

Sr. No.	Subject Code	Subject	TEACHING SCHEME					EXAMINATION SCHEME									
			HOURS / WEEK			CREDITS	THEORY					PRACTICAL					
			Lecture	Tutorial	P/D		Total HRS/WEEK	Duration of Paper (Hr.)	Max. Marks Theory Paper	Internal Marks	Total	Min. Passing Marks	Max. Marks		Min. Passing Marks		
													Int.	Ext.			
<b>THEORY</b>																	
01	8ME01	Operation Research Techniques	3	-	-	3	3	3	80	20	100	40	-	-	-	-	
02	8ME02	I.C. Engines	3	-	-	3	3	3	80	20	100	40	-	-	-	-	
03	8ME03	Prof. Elective-III	3	-	-	3	3	3	80	20	100	40	-	-	-	-	
04	8ME04	Prof. Elective- IV	3	-	-	3	3	3	80	20	100	40	-	-	-	-	
<b>PRACTICALS / DRAWING / DESIGN</b>																	
05	8ME05	I.C. Engines- lab.	-	-	2	2	1	-	-	-	-	-	25	25	50	25	
06	8ME06	Prof. Elective-IV – lab.	-	-	2	2	1	-	-	-	-	-	25	25	50	25	
07	8ME07	Project	-	-	12	12	6	-	-	-	-	-	75	75	150	75	
<b>Total</b>			<b>12</b>	<b>-</b>	<b>16</b>	<b>28</b>	<b>20</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>400</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>250</b>	<b>-</b>	
<b>Grand Total</b>															<b>650</b>		
<b>8ME03 Prof. Elect. –III: (i) Energy Conservation and Management(ii) Production Planning &amp; Control (iii) Product Design and Development (iv) Artificial Intelligence</b>																	
<b>8ME04: Prof. Elect. IV: (i) Refrigeration &amp; Air Conditioning (ii) Finite Element Analysis (iii) Robotics and Industrial Applications (iv) Rapid Prototyping</b>																	