

**7. STUDY AND EVALUATION SCHEME FOR DIPLOMA PROGRAMME IN  
MECHANICAL ENGINEERING ( AUTOMOBILE)**

**FIRST SEMESTER**

Sr. No	Subject	STUDY SCHEME			EVALUATION SCHEME						Total Marks
					Internal Assessment		External Assessment (Examination)				
		Hrs/week			Theory	Practical	Written Paper		Practical		
		L	T	P	Max. Marks	Max. Marks	Max. Marks	Hrs	Max. Marks	Hrs	
1.1*	Communication Skills - I	3	-	2	25	25	100	3	50	2	200
1.2*	Applied Mathematics - I	5	-	-	50	-	100	3	-	-	150
1.3*	Applied Physics – I	4	-	2	25	25	100	3	50	3	200
1.4*	Applied Chemistry – I	3	-	2	25	25	100	3	50	3	200
1.5*	Basics of Information Technology	-	-	4	-	50	-	-	100	3	150
1.6*	Engineering Drawing - I	-	-	6	-	50	100	3	25 (Viva)	2	175
1.7*	General Workshop Practice - I	-	-	6	-	50	-	-	+100	3	150
	# Student Centred Activities	-	-	3	-	25	-	-	-	-	25
	<b>Total</b>	<b>15</b>	<b>-</b>	<b>25</b>	<b>125</b>	<b>250</b>	<b>500</b>	<b>-</b>	<b>375</b>	<b>-</b>	<b>1250</b>

\* Common with other diploma programmes

+ Includes 25 marks for Viva-voce

# Student Centred Activities will comprise of co-curricular activities like extension lectures, library studies, games, hobby clubs e.g. photography, painting, singing, seminars, declamation contests, educational field visits, N.C.C., NSS, Cultural Activities, Civil Defence/Disaster Management activities etc.

**SECOND SEMESTER (MECHANICAL ENGINEERING( AUTOMOBILE) )**

Sr. No	Subject	STUDY SCHEME			EVALUATION SCHEME						Total Marks
					Internal Assessment		External Assessment (Examination)				
		Hrs/week			Theory	Practical	Written Paper		Practical		
		L	T	P	Max. Marks	Max. Marks	Max. Marks	Hrs	Max. Marks	Hrs	
2.1*	Communication Skills – II	3	-	2	25	25	100	3	50	2	200
2.2*	Applied Mathematics - II	5	-	-	50	-	100	3	-	-	150
2.3*	Applied Physics – II	4	-	2	25	25	100	3	50	3	200
2.4*	Applied Chemistry – II	3	-	2	25	25	100	3	50	3	200
2.5**	Applied Mechanics	3	-	2	25	25	100	3	50	3	200
2.6*	Engineering Drawing - II	-	-	6	-	50	100	3	25 (Viva)	2	175
2.7*	General Workshop Practice - II	-	-	6	-	50	-	-	+100	3	150
#	Student Centred Activities	-	-	2	-	25	-	-	-	-	25
	<b>Total</b>	<b>18</b>	<b>-</b>	<b>22</b>	<b>150</b>	<b>225</b>	<b>600</b>	<b>-</b>	<b>325</b>	<b>-</b>	<b>1300</b>

\* Common with other diploma programmes

\*\* Common with diploma programme in Civil Engineering

+ Includes 25 marks for Viva-voce

# Student Centred Activities will comprise of co-curricular activities like extension lectures, library studies, games, hobby clubs e.g. photography, painting, singing, seminars, declamation contests, educational field visits, N.C.C., NSS, Cultural Activities, Civil Defence/Disaster Management activities etc.

**THIRD SEMESTER (MECHANICAL ENGINEERING( AUTOMOBILE) )**

Sr. No	Subject	STUDY SCHEME			EVALUATION SCHEME						Total Marks
					Internal Assessment		External Assessment (Examination)				
		Hrs/week			Theory	Practical	Written Paper		Practical		
		L	T	P	Max. Marks	Max. Marks	Max. Marks	Hrs	Max. Marks	Hrs	
		3.1**	Strength of Materials	4	-	2	25	25	100	3	
3.2**	Thermodynamics	4	-	2	25	25	100	3	50	3	200
3.3**	Basics of Electrical and Electronics Engineering	3	-	2	25	25	100	3	50	3	200
3.4**	Workshop Technology – I	3	-	-	50	-	100	3	-	-	150
3.5**	Machine Drawing	-	-	6	-	50	100	3	25 (Viva)	2	175
3.6**	Workshop Practice – I	-	-	9	-	100	-	-	100	3	200
Student Centred Activities#		-	-	5	-	25	-	-	-	-	25
<b>Total</b>		<b>14</b>	<b>-</b>	<b>26</b>	<b>125</b>	<b>250</b>	<b>500</b>	<b>-</b>	<b>275</b>	<b>-</b>	<b>1150</b>

\*\* Common with diploma programme in Production Engineering

# Student Centred Activities will comprise of co-curricular activities like extension lectures, library studies, games, hobby clubs e.g. photography, painting, singing, seminars, declamation contests, educational field visits, N.C.C., NSS, Cultural Activities, Civil Defence/Disaster Management activities etc.

**FOURTH SEMESTER (MECHANICAL ENGINEERING ( AUTOMOBILE) )**

Sr. No	Subject	STUDY SCHEME			EVALUATION SCHEME						Total Marks
					Internal Assessment		External Assessment (Examination)				
		L	T	P	Theory	Practical	Written Paper		Practical		
					Max. Marks	Max. Marks	Max. Marks	Hrs	Max. Marks	Hrs	
Hrs/week											
4.1 **	Materials and Metallurgy	3	-	2	25	25	100	3	50	3	200
4.2	Hydraulics and Pneumatic Systems	3	-	2	25	25	100	3	50	3	200
4.3	I.C. Engines	3	-	2	25	25	100	3	50	3	200
4.4 **	Machine Design and Drawing	2	-	6	25	25	100	3	25 (Viva)	3	175
4.5 **	Workshop Technology – II	3	-	-	25	-	100	3	-	-	125
4.6 **	Workshop Practice – II	-	-	9	-	100	-	-	100	3	200
Student Centred Activities #		-	-	5	-	25	-	-	-	-	25
<b>Total</b>		<b>14</b>	<b>-</b>	<b>26</b>	<b>125</b>	<b>225</b>	<b>500</b>	<b>-</b>	<b>275</b>	<b>-</b>	<b>1125</b>

\*\* Common with diploma programme in Production Engineering

+ Includes 25 marks for Viva-voce

# Student Centred Activities will comprise of co-curricular activities like extension lectures, library studies, games, hobby clubs e.g. photography, painting, singing, seminars, declamation contests, educational field visits, N.C.C., NSS, Cultural Activities, Civil Defence/Disaster Management activities etc.

**Industrial Training** - After examination of 4<sup>th</sup> Semester, the students shall go for training in a relevant industry/field organization for a minimum period of one month and shall prepare a diary. It shall be evaluated during 5<sup>th</sup> semester by his/her teacher for 50 marks. The students shall also prepare a report at the end of training and shall present it in a seminar, which will be evaluated for another 50 marks. This evaluation will be done by HOD and lecturer incharge – training in the presence of one representative from training organization.

**FIFTH SEMESTER (MECHANICAL ENGINEERING( AUTOMOBILE) )**

Sr. No	Subject	STUDY SCHEME			EVALUATION SCHEME						Total Marks
					Internal Assessment		External Assessment (Examination)				
		Hrs/week			Theory	Practical	Written Paper		Practical		
		L	T	P	Max. Marks	Max. Marks	Max. Marks	Hrs	Max. Marks	Hrs	
<b>Industrial Training</b>		-	-	-	-	50	-	-	50	3	100
5.1 **	Theory of Machines	4	-	-	25	-	100	3	-	-	125
5.2	Automobile Engineering I	4	-	2	25	25	100	3	50	3	200
5.3 *	Employability Skills – I	-	-	2	-	25	-	-	50	3	75
5.4 *	Environmental Education	3	-	-	25	-	100	3	-	-	125
5.5 **	CNC Machines and Automation	3	-	2	25	25	100	3	50	3	200
5.6 **	Workshop Technology – III	3	-	-	25	-	100	3	-	-	125
5.7 **	Workshop Practice – III	-	-	9	-	100	-	-	100	3	200
5.8 *	Computer Aided Drafting	-	-	3	-	50	-	-	50	3	100
Student Centred Activities#		-	-	5	-	25	-	-	-	-	25
<b>Total</b>		<b>17</b>	<b>-</b>	<b>23</b>	<b>125</b>	<b>300</b>	<b>500</b>	<b>-</b>	<b>350</b>	<b>-</b>	<b>1275</b>

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# Student Centred Activities will comprise of co-curricular activities like extension lectures, library studies, games, hobby clubs e.g. photography, painting, singing, seminars, declamation contests, educational field visits, N.C.C., NSS, Cultural Activities, Civil Defence/Disaster Management activities etc.

**SIXTH SEMESTER (MECHANICAL ENGINEERING( AUTOMOBILE) )**

Sr. No	Subject	STUDY SCHEME			EVALUATION SCHEME						Total Marks
					Internal Assessment		External Assessment (Examination)				
		Hrs/week			Theory	Practical	Written Paper		Practical		
		L	T	P	Max. Marks	Max. Marks	Max. Marks	Hrs	Max. Marks	Hrs	
6.1	Automobile Engineering II	3	-	2	25	25	100	3	50	3	200
6.2 **	Inspection & Quality Control	4	-	2	25	25	100	3	50	3	200
6.3 **	Industrial Engineering	4	-	-	25	-	100	3	-	-	125
6.4 *	Entrepreneurship Development and Management	3	-	-	25	-	100	3	-	-	125
6.5 *	Employability Skills – II	-	-	2	-	25	-	-	50	3	75
6.6	Project Work	-	-	15	-	100	-	-	100	3	200
Student Centred Activities #		-	-	5	-	25	-	-	-	-	25
<b>Total</b>		<b>14</b>	<b>-</b>	<b>26</b>	<b>100</b>	<b>200</b>	<b>400</b>	<b>-</b>	<b>250</b>	<b>-</b>	<b>950</b>

\* Common with other diploma programmes

\*\* Common with diploma programme in Production Engineering

# Student Centred Activities will comprise of co-curricular activities like extension lectures, library studies, games, hobby clubs e.g. photography, painting, singing, seminars, declamation contests, educational field visits, N.C.C., NSS, Cultural Activities, Civil Defence/Disaster Management activities etc.