

**STUDY AND EVALUATION SCHEME FOR DIPLOMA PROGRAMME IN  
MECHANICAL ENGINEERING (FABRICATION TECHNOLOGY)**

**FIRST SEMESTER**

Sr. No	Subject	STUDY SCHEME			EVALUATION SCHEME						Total Marks
					<i>Internal Assessment</i>		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

Sr. No	Subject	STUDY SCHEME			EVALUATION SCHEME						Total Marks
					<i>Internal Assessment</i>		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>		18	-	22	150	225	600	-	325	-	1300

\* 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

Sr. No	Subject	L T P Hrs/week			EVALUATION SCHEME						Total Marks
					Internal Assessment		External Assessment (Examination)				
					Theory	Practical	Written Paper		Practical		
					Max. Marks	Max. Marks	Max. Marks	Hrs	Max. Marks	Hrs	
3.1	+Strength of Materials	3	1	2	25	25	100	3	50	3	200
3.2	Principles of Thermal Engineering	3	1	2	25	25	100	3	50	3	200
3.3	**Basics of Electrical and Electronics Engg.	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	-	50	-	-	100	3	150
	Student Centred Activities	-	-	5	-	25	-	-	-	-	25
	Total	12	2	26	125	200	500	-	275	-	1100

+ Common with Mechanical Engineering/Mechanical Engineering (Tool and Die)

\* Common with Mechanical Engineering/Production Engineering/Mechanical Engineering (Tool & Die)

\*\* Common with Mechanical Engineering/Production Engineering/Mechanical Engineering (Tool & Die)/Ceramic 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

Sr. No	Subject	L T P Hrs/week			EVALUATION SCHEME						Total Marks
					Internal Assessment		External Assessment (Examination)				
					Theory	Practical	Written Paper		Practical		
					Max. Marks	Max. Marks	Max. Marks	Hrs	Max. Marks	Hrs	
4.1	*Materials & Metallurgy	3	-	2	25	25	100	3	50	3	200
4.2	Fabrication Processes-I	3	-	2	25	25	100	3	50	3	200
4.3	Industrial Hydraulic and Pneumatics	4	-	2	25	25	100	3	50	3	200
4.4	*Workshop Technology- II	3	-	-	50	-	100	3	-	-	150
4.5	++ Machine Design & Drawing	3	-	3	25	25	100	3	25 (viva)	2	175
4.6	*Workshop Practice II	-	-	9	-	50	-	-	100	3	150
4.7	+ Computer Applications in Fabrication Technology	-	-	4	-	50	-	-	50	3	100
-	Industrial training for 4 weeks during summer vacations after IVth semester.	To be evaluated in Vth semester									
	Student Centered Activities	-		2	-	25	-	-	-	-	25
	Total	16	-	24	150	225	500	-	325	-	1200

\* Common with Production Engineering/Mechanical Engineering (Tool & Die)

+ Common with Production Engineering /Automobile Engineering/Agriculture Technology

++ Common with 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.

## FIFTH SEMESTER

Sr. No	Subject	L T P Hrs/week			EVALUATION SCHEME						Total Marks
					Internal Assessment		External Assessment (Examination)				
					Theory	Practical	Written Paper		Practical		
					Max. Marks	Max. Marks	Max. Marks	Hrs	Max. Marks	Hrs	
-	Industrial Training for 4 weeks during vacations	-	-	-	-	100	-	-	100	3	200
5.1	Theory of Machines	3	1	-	25	-	100	3	-	-	125
5.2	Fabrication Processes - II	4	-	2	25	25	100	3	50	3	200
5.3	**Industrial Engineering	4	-	-	50	-	100	3	-	-	150
5.4	*Workshop Technology III	3	-	-	50	-	100	3	-	-	150
5.5	*CNC Machines & Automation	3	-	-	25	-	100	3	-	-	125
5.6	*Workshop Practice III	-	-	9	-	50	-	-	100	3	150
5.7	*Computer Integrated Manufacturing(CIM)	2	-	4	-	50	-	-	50	3	100
	Student Centred Activities	-	-	5	-	25	-	-	-	-	25
	Total	19	1	20	175	250	500	-	300	-	1225

\* Common with Mech. Engineering/Production Engineering/Mechanical Engineering (Tool & Die)

\*\* Common with Mechanical Engineering/ Production Engineering /Mechanical Engineering (Tool & Die)/Automobile 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.

## SIXTH SEMESTER

Sr. No	Subject	L T P Hrs/week			EVALUATION SCHEME						Total Marks
					Internal Assessment		External Assessment (Examination)				
					Theory	Practical	Written Paper		Practical		
					Max. Marks	Max. Marks	Max. Marks	Hrs	Max. Marks	Hrs	
6.1	+ Industrial Management	3	-	-	50	-	100	3	-	-	150
6.2	*Inspection & Quality Control	3	-	2	25	25	100	3	50	3	200
6.3	Automobile Engineering	3	-	2	25	25	100	3	50	3	200
6.4	**Entrepreneurship Development and management	3	-	-	50	-	100	3	-	-	150
6.5	Installation, Testing and Maintenance	3	-	4	25	25	100	3	50	3	200
6.6	Project Work	-	-	12	-	100	-	-	200	3	300
	Student Centred Activities	-	-	5	-	25	-	-	-	-	25
	Total	15	-	25	175	200	500	-	350	-	1225

\*Common with Mech. Engg/Production Engineering.

+ Common with Mech. Engg./Production Engineering/Automobile Engineering/Agricultural Technology/Mechanical Engineering (Tool & Die)

\*\* Common with Mech. Engg./ Production Engineering/Automobile Engineering/Agricultural Technology

# 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.