7. STUDY AND EVALUATION SCHEME (MECHANICAL ENGINEERING – TOOL & DIE)

FIRST SEMESTER

Sr. No	Subject	L	T	P	EVALUATION SCHEME						Total Marks
		Hrs/week			Internal Assessment		External Assessment (Examination)				
					Theory	Practical	Written Paper		Practical		
					Max. Marks	Max. Marks	Max. Marks	Hrs	Max. Marks	Hrs	
1	Communication Skills -I	3	-	2	25	25	100	3	50	2	200
2	Applied Mathematics-I	4	1	-	50	-	100	3	-	-	150
3	Applied Physics - I	4	-	2	25	25	100	3	50	3	200
4	Applied Chemistry - I	2	-	2	25	25	100	3	50	3	200
5	Basics of Information Technology	-	-	4	-	50	-	-	100	3	150
6	Engineermg Drawing- I	-	-	6	-	50	100	3	25 (Viva)	2	175
7	General Workshop Practice - I	-	-	6	-	50	-	-	*100	3	150
Student Centred Activities		-	-	4	-	25	-	-	-	-	25
Total		13	1	26	125	250	500	-	375	-	1250

* Including 25 marks for Viva-voce

SECOND SEMESTER

Sr. No	Subject	L	T	P	EVALUATION SCHEME						Total Marks
		Hrs/week			Internal Assessment		External Assessment (Examination)				
					Theory	Practical	Written Paper		Practical		
					Max. Marks	Max. Marks	Max. Marks	Hrs	Max. Marks	Hrs	
1	Communication Skills -II	3	-	2	25	25	100	3	50	2	200
2	Applied Mathematics-II	4	1	-	50	-	100	3	-	-	150
3	Applied Physics - II	3	-	2	25	25	100	3	50	3	200
4	Applied Chemistry - II	2	-	2	25	25	100	3	50	3	200
5	Applied Mechanics	3	-	2	25	25	100	3	50	3	200
6	Engineering Drawing - II	-	-	6	-	50	100	3	25 (Viva)	2	175
7	General Workshop Practice-II	-	-	6	-	50	-	-	*100	3	150
	Student Centred Activities	-	-	4	-	25	-	-	-	-	25
	Total	15	1	24	150	225	600	-	325	-	1300

* Including 25 marks for Viva-voce

THIRD SEMESTER

Sr. No	Subject	L	T	P	EVALUATION SCHEME						Total Marks
		Hrs/week			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	+ Press Tool - Design & Drawing	3	-	4	-	50	100	3	-	-	150
3.3	*Basics of Electrical and Electronics Engineering	3	-	2	25	25	100	3	50	3	200
3.4	*Workshop Technology I	3	-	-	25	-	100	3	-	-	125
3.5	*Machine Drawing	-	-	6	-	50	100	3	-	-	150
3.6	*Workshop Practice I	-	-	9	-	100		-	100	3	200
	Student centred Activities	-	-	4	-	25	-	-	-	-	25
	Total	12	1	27	75	275	500	-	200	-	1050

*Common with Mechanical Engineering/ Production Engineering

** Common with Mechanical Engineering

+ The question paper will consist of 2 parts: Section A and Section B. Section A will contain theory contents to the extent of 40%. Section B will contain design & drawing to the extent of 60%.

FOURTH SEMESTER

Sr. No	Subject	L	T	P	EVALUATION SCHEME						Total Marks
		Hrs/week			Internal Assessment		External Assessment (Examination)				
					Theory	Practical	Written Paper		Practical		
					Max. Marks	Max. Marks	Max. Marks	Hrs	Max. Marks	Hrs	
4.1	*Materials and Metallurgy	3	-	2	25	25	100	3	50	3	200
4.2	**Hydraulic and Pneumatic Systems	3	-	2	25	25	100	3	50	3	200
4.3	+Jigs, Fixtures and Gauges - Design and Drawing	3	-	2	-	50	100	3	-	-	150
4.4	*Workshop Technology -II	3	-	-	25	-	100	3	-	-	125
4.5	*Inspection & Quality Control	3	-	2	25	25	100	3	50	3	200
4.6	*Workshop Practice-II	-	-	9	-	100	-	-	100	3	200
4.7	CAD- I	-	-	4	-	50	-	-	100	3	150
	Student Centred Activities	-	-	4	-	25	-	-	-	-	25
	Total	15	-	25	100	300	500	-	350	-	1250

*Common with Mechanical Engineering/Production Engineering.

** Common with Production Engineering.

+ The question paper will consist of 2 parts: Section A and Section B. Section A will contain theory contents to the extent of 40%. Section B will contain design & drawing to the extent of 60%.

FIFTH SEMESTER

Sr. No	Subject	L	T	P	EVALUATION SCHEME						Total Marks
		Hrs/week			Internal Assessment		External Assessment (Examination)				
					Theory	Practical	Written Paper		Practical		
					Max. Marks	Max. Marks	Max. Mars	Hrs	Max. Marks	Hrs	
-	Industrial training for 4 weeks during Vacations				-	100	-	-	100	3	200
5.1	Heat Treatment	2	-	2	25	25	100	3	50	3	200
5.2	+Plastic Mould-Design and Drawing	2	-	4	-	50	100	3	-	-	150
5.3	Estimating & Costing	3	-	-	25	-	100	3	-	-	125
5.4	* Workshop Technology –III	3	-	-	25	-	100	3	-	-	125
5.5	*CNC Machines & Automation	3	-	0	25	25	100	3	50	3	200
5.6	*Workshop Practice -III	-	-	9	-	100	-	-	100	3	200
5.7	CAD-II	-	-	6	-	50	-	-	100	3	150
Student Centred Activities		-	-	6	-	25	-	-	-	-	25
Total		13	-	27	100	375	500	-	400	-	1375

*Common with Mechanical Engineering / Production Engineering.

+ The question paper will consist of 2 parts: Section A and Section B. Section A will contain theory contents to the extent of 40%. Section B will contain design & drawing to the extent of 60%.

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	[+]Forging & die casting dies-Design and Drawing	3	-	4	-	50	100	3	-	-	150
6.3	*Computer Integrated Manufacturing	2	-	4	-	50	-	-	50	3	100
6.4	Workshop Practice -IV	-	-	8	-	50	-	-	100	3	150
6.5	*Industrial Engineering	4	-	-	50	-	100	3	-	-	150
6.6	Project Work	-	-	8	-	100	-	-	100	3	200
	Student Centred Activities	-	-	4	-	25	-	-	-	-	25
	Total	12	-	28	100	275	300	-	250	-	925

* Common with Mechanical Engineering/Production Engineering.

[+] The question paper will consist of 2 parts: Section A and Section B. Section A will contain theory contents to the extent of 40%. Section B will contain design & drawing to the extent of 60%.

8. DETAILED CONTENTS