7. STUDY AND EVALUATION SCHEME FOR DIPLOMA PROGRAMME IN MECHANICAL ENGINEERING (TOOL AND DIE)

FIRST SEMESTER

Sr.	Subject	STUDY			EVALUATION SCHEME							
No		SCHEME			emal ssment	External Assessment (Examination)				Marks		
					Theory Practical		Written	Paper	Practical			
			Periods/wee		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	
	Total	15	-	25	125	250	500	-	375	-	1250	

* 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 (TOOL AND DIE)

Sr. No	Subject		STUDY		EVALUATION SCHEME						
		SCHEME			Internal Assessment		External Assessment (Examination)				Marks
		Periods/week L T P		Theory	heory Practical		Written Paper		cal	1	
				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
	Total	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 - MECHANICAL ENGINEERING (TOOL AND DIE)

Sr. No	Subject		STUDY SCHEME			EVALUATION SCHEME						
						ernal ssment	External Assessment (Examination)				Marks	
		Per	Periods/week		Theory Practical		Written Paper		Practical		-	
		L	Т	Ρ	Max. Marks	Max. Marks	Max. Marks	Hrs	Max. Marks	Hrs		
3.1	**Strength of Materials	4	-	2	25	25	100	3	50	3	200	
3.2	+ Press Tool-Design and Drawing	2	-	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	-	-	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	
	Total	12	-	28	100	275	500	-	225	-	1100	

+ The Question Paper will consist of 2 parts: Section A and Section B. Section A will contain theory contents to the extent of 50%. Section B will contain design and Drawing to the extent of 50%.

** Common with diploma programmes in Mechanical Engineering and Production Engineering.

Student Centered 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 (TOOL AND DIE)

Sr. No	Subject	STUDY			EVALUATION SCHEME						
		SCHEME			ernal ssment	External Assessment (Examination)				Marks	
					Theory	Practical	Written Paper		Practical		
		Periods/week		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	4	-	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	Basics of Mechanical Engineering	3	-	2	25	25	100	3	50	3	200
4.5	**Workshop Technology – II	3	-	-	25	-	100	3	-	-	125
4.6	**Workshop Practice – II	-	-	9	-	100	-	-	100	3	200
4.7	**Computer Aided Drafting	-	-	3	-	50	-	-	50	3	100
# S	# Student Centered Activities		-	4	-	25	-	-	-	-	25
	Total	16	-	24	100	300	500	-	300	-	1200

** Common with diploma programme in Mechanical Engineering and Production Engineering

*** Common with diploma programme in 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 50%. Section B will contain design and Drawing to the extent of 50%.

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 - MECHANICAL ENGINEERING (TOOL AND DIE)

Sr. No	Subject	LTP			EVALUATION SCHEME							
		Periods/week			emal ssment	Ex	Marks					
					Theory	Practical	Written Paper		Pract			
					Max. Marks	Max. Marks	Max. Marks	Hrs	Max. Marks	Hrs		
-	Industrial Training for 4 weeks	luring	, vacat	tions	-	50	-	-	50	3	100	
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	*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	Estimating & Costing	3	-	-	25	-	100	3	-	-	125	
#	Student Centred Activities	-	-	5	-	25	-	-	-	-	25	
	Total	16	-	24	125	300	600	-	300	-	1325	

* Common with Other Diploma Programmes

** Common with diploma programme in Mechanical Engineering and 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 50%. Section B will contain design and Drawing to the extent of 50%.

Student Centered 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 (TOOL AND DIE)

Sr. No	Subject		STUD		EVALUATION SCHEME						
		SCHEME		-	ernal ssment	External Assessment (Examination)				Marks	
					Theory	Theory Practical		Written Paper		cal	
		Per L	Periods/week		Max. Marks	Max. Marks	Max. Marks	Hrs	Max. Marks	Hrs	
6.1	+Forging & Casting dies- Design and Drawing	3	_	4	-	50	100	3	-	-	125
6.2	**Inspection and 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	Tool Room Practice	-	-	4	-	50	-	-	50	3	100
6.7	Project Work	-	-	8	-	100	-	-	100	3	200
#	Student Centred Activities	I	-	6	-	25	-	-	-	-	25
	Total	14	-	26	75	275	400	-	250	-	1000

* Common with other diploma programmes

** Common with diploma programme in Mechanical Engineering and 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 50%. Section B will contain design and Drawing to the extent of 50%.

Student Centered 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.