

7. STUDY AND EVALUATION SCHEME FOR DIPLOMA PROGRAMME IN MECHANICAL ENGINEERING (J&K)

FIRST SEMESTER

Sr. No	Subject	L T P Cr 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	
1.1*	English and Communication Skills -I	3	-	2	4	15	10	100	3	50	3	175
1.2*	Applied Mathematics-I	5	-	-	5	25	-	100	3	-	-	125
1.3*	Applied Physics – I	4	-	2	5	15	10	100	3	50	3	175
1.4*	Applied Chemistry – I	2	-	2	3	15	10	100	3	50	3	175
1.5*	Basics of Information Technology	-	-	4	2	-	25	-	-	75	3	100
1.6*	Engineering Drawing-I	-	-	6	3	-	25	100	4	25 (Viva)	-	150
1.7*	General Workshop Practice - I	-	-	6	3	-	25	-	-	75+25 ⁺	3	125
# Student Centred Activities		-	-	4	2	-	25	-	-	-	-	25
Total		14	-	26	27	70	130	500	-	350	-	1050

* Common with other Diploma programmes

Student Centred Activities will comprise of various co-curricular activities like games, hobby clubs, seminars, declamation contests, extension lectures, field visits, NCC, NSS and cultural activities etc.

+ 25 marks are for Viva-voce

L = Lecture (Hours per week)

P = Practical (Hours per week)

T = Tutorial (Hours per week)

Cr = Credits

Note:

As per AICTE Norms, each semester has to be of 16 weeks duration for teaching (excluding examination and vacation), and 40 contact hours per week for teaching out of which about 4 hours/week should be devoted to student centred activities.

SECOND SEMESTER (MECHANICAL ENGINEERING)

Sr. No	Subject	L T P Cr 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	
2.1*	English and Communication Skills –II	3	-	2	4	15	10	100	3	50	3	175
2.2*	Applied Mathematics-II	5	-	-	5	25	-	100	3	-	-	125
2.3*	Applied Physics – II	4	-	2	5	15	10	100	3	50	3	175
2.4*	Applied Chemistry - II	2	-	2	3	15	10	100	3	50	3	175
2.5*	Applied Mechanics	3	-	2	4	15	10	100	3	50	3	175
2.6*	Engineering Drawing - II	-	-	6	3	-	25	100	4	25 ⁺	-	150
2.7*	General Workshop Practice-II	-	-	6	3	-	25	-	-	75+25 ⁺	3	125
# Student Centred Activities		-	-	3	2	-	25	-	-	-	-	25
Total		17	-	23	29	85	115	600	-	325	-	1125

* Common with other diploma programmes

Student Centred Activities will comprise of various co-curricular activities like games, hobby clubs, seminars, declamation contests, extension lectures, field visits, NCC, NSS and cultural activities etc.

+ 25 marks are for Viva-voce

Note:

As per AICTE Norms, each semester has to be of 16 weeks duration for teaching (excluding examination and vacation), and 40 contact hours per week for teaching out of which about 4 hours/week should be devoted to student centred activities.

THIRD SEMESTER (MECHANICAL ENGINEERING)

Sr. No	Subject	L T P Cr 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	Material Science	3	-	2	4	15	10	100	3	50	3	175
3.2	Strength of Materials	3	-	2	4	15	10	100	3	50	3	175
3.3	General Engineering	4	-	2	5	15	10	100	3	50	3	175
3.4	Fundamentals of Thermal Engineering	4	-	2	5	15	10	100	3	50	3	175
3.5	Machine Drawing	-	-	6	3	-	25	-	-	100	4	125
3.6	Manufacturing Processes and Practices - I	3	-	6	6	15	10	100	3	75	3	200
# Student Centred Activities including Ecology and Environmental Awareness Camp		-	-	3	2	-	25	-	-	-	-	25
Total		17	-	23	29	75	100	500	-	375	-	1050

Student Centred Activities will comprise of various co-curricular activities like games, hobby clubs, seminars, declamation contests, extension lectures, field visits, NCC, NSS and cultural activities etc.

Note:

As per AICTE Norms, each semester has to be of 16 weeks duration for teaching (excluding examination and vacation), and 40 contact hours per week for teaching out of which about 4 hours/week should be devoted to student centred activities.

FOURTH SEMESTER (MECHANICAL ENGINEERING)

Sr. No	Subject	L T P Cr 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	Computer Aided Drafting and Drawing (CADD)	-	-	6	3	-	25	-	-	75	3	100
4.2	Manufacturing Processes and Practices - II	4	-	6	7	15	10	100	3	75	3	200
4.3	Applied Thermodynamics	4	-	2	5	15	10	100	3	50	3	175
4.4	Hydraulics and Hydraulic Machines	3	-	2	4	15	10	100	3	50	3	175
4.5	Theory of Machines	4	-	-	4	25	-	100	3	-	-	125
4.6	Metrology and Quality Control	3	-	2	4	15	10	100	3	50	3	175
Industrial Training at a stretch for 4 weeks after 4 th semester - To be evaluated in 5 th Semester		To be evaluated in 5 th Semester										
# Student Centred Activities including Entrepreneurial Awareness Camp		-	-	4	2	-	25	-	-	-	-	25
Total		18	-	22	29	85	90	500	-	300	-	975

Student Centred Activities will comprise of various co-curricular activities like games, hobby clubs, seminars, declamation contests, extension lectures, field visits, NCC, NSS and cultural activities etc.

Note:

As per AICTE Norms, each semester has to be of 16 weeks duration for teaching (excluding examination and vacation), and 40 contact hours per week for teaching out of which about 4 hours/week should be devoted to student centred activities.

FIFTH SEMESTER (MECHANICAL ENGINEERING)

Sr. No	Subject	L T P Cr				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 at a stretch for 4 weeks after 4th semester					-	50	-	-	100	3	150
5.1	Machine Design	5	-	2	6	15	10	100	3	50	3	175
5.2	Refrigeration and Air Conditioning	4	-	2	5	15	10	100	3	50	3	175
5.3	Manufacturing Processes and Practices – III	3	-	6	6	15	10	100	3	75	3	200
5.4	Industrial Automation	3	-	4	5	15	10	100	3	75	3	200
5.5	Production Management	4	-	2	5	15	10	100	3	50	3	175
	# Student Centred Activities	-	-	5	2	-	25	-	-	-	-	25
	Total	19	-	21	29	75	125	500	-	400	-	1100

Student Centred Activities will comprise of various co-curricular activities like games, hobby clubs, seminars, declamation contests, extension lectures, field visits, NCC, NSS and cultural activities etc.

Note:

As per AICTE Norms, each semester has to be of 16 weeks duration for teaching (excluding examination and vacation), and 40 contact hours per week for teaching out of which about 4 hours/week should be devoted to student centred activities.

SIXTH SEMESTER (MECHANICAL ENGINEERING)

Sr. No	Subject	L T P Cr 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	CNC Machines	3	-	4	5	15	10	100	3	75	3	200
6.2*	Industrial Management and Entrepreneurship Development	4	-	-	4	25	-	100	4	-	-	125
6.3	Automobile Engineering	4	-	2	5	15	10	100	3	50	3	175
6.4	Maintenance Engineering	3	-	4	5	15	10	100	3	75	3	200
6.5	Project Work	-	-	12	6	-	100	-	-	200	3	300
# Student Centred Activities		-	-	4	2	-	25	-	-	-	-	25
Total		14	-	26	27	70	155	400	-	400	-	1025

* Common with Automobile Engineering

Student Centred Activities will comprise of various co-curricular activities like games, hobby clubs, seminars, declamation contests, extension lectures, field visits, NCC, NSS and cultural activities etc.

Note:

As per AICTE Norms, each semester has to be of 16 weeks duration for teaching (excluding examination and vacation), and 40 contact hours per week for teaching out of which about 4 hours/week should be devoted to student centred activities.