

**7. STUDY AND EVALUATION SCHEME FOR DIPLOMA PROGRAMME IN
FIRE TECHNOLOGY AND SAFETY**

FIRST SEMESTER

Sr. No	Subject	STUDY SCHEME Hrs/week L T P			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*	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 (FIRE TECHNOLOGY AND SAFETY)

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**	Fundamentals of Electrical Engineering	4	-	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		-	-	1	-	25	-	-	-	-	25
Total		19	-	21	150	225	600	-	325	-	1300

* Common with other diploma programmes

** Common with diploma programme in Electrical 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 (FIRE TECHNOLOGY AND SAFETY)

Sr. No	Subject	STUDY SCHEME Hrs/week L T P			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*	Electrical and Electronics Engineering Materials	4	-	-	25	-	100	3	-	-	125
3.2	Science of Fire Technology	4	-	2	25	25	100	3	50	3	200
3.3	Basic Electronics	4	-	3	25	25	100	3	50	3	200
3.4	Fire Prevention	4	-	2	25	25	100	3	50	3	200
3.5*	Computer Programming and Applications	2	-	4	25	25	100	3	50	3	200
3.6	Physical Training and Drill-I	-	-	6	-	100	-	-	-	-	100
# Student Centred Activities		-	-	5	-	25	-	-	-	-	25
Total		18	-	22	125	225	500	-	200	-	1050

* Common with diploma programme in Electrical Engineering

SCA 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 (FIRE TECHNOLOGY AND SAFETY)

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	
4.1*	Electrical Machines-I	4	-	3	25	25	100	3	50	3	200
4.2*	Electrical and Electronics Measuring Instruments	4	-	3	25	25	100	3	50	3	200
4.3	Electronic Devices and Circuits	4	-	3	25	25	100	3	50	3	200
4.4	Fire Equipment and Machinery	5	-	3	25	25	100	3	50	3	200
4.5	Physical Training and Drill-II	-	-	6	-	100	-	-	-	-	100
#	Student Centred Activities including Entrepreneurial Awareness Camp	-	-	5	-	25	-	-	-	-	25
Total		17	-	23	100	225	400	-	200	-	925

* Common with diploma programme in Electrical Engineering

SCA 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 (FIRE TECHNOLOGY AND SAFETY)

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	
5.1*	Employability Skills - I	-	-	2	-	25	-	-	50	3	75
5.2*	Environmental Education	3	-	-	25	-	100	3	-	-	125
5.3	Fire Tender and Pumps	2	-	2	25	25	100	3	50	3	200
5.4	Physical Training and Drill - III	-	-	6	-	100	-	-	-	-	100
5.5	SUPERVISED INDUSTRIAL/PRACTICAL TRAINING (12 WEEKS) (From Mid August to Mid November) For Details Please See 5.4 (Page No. 108)									500	
#	Student Centred Activities including Personality Development Camp	-	-	5	-	25	-	-	-	-	25
Total		5	-	15	50	175	200	-	100	-	1025

* Common with other diploma programmes

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 (FIRE TECHNOLOGY AND SAFETY)

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*	Employability Skills - II	-	-	2	-	25	-	-	50	3	75
6.2*	Fire Service Administration	5	-	3	25	25	100	3	50	-	200
6.3	Investigation and Inspection of Fire	4	-	2	25	25	100	3	50	3	200
6.4*	Entrepreneurship Development and Management	3	-	-	25	-	100	3	-	-	125
6.5	Physical Training and Drill-IV	-	-	6	-	100	-	-	-	-	100
6.6	Major Project Work	-	-	10	-	100	-	-	100	-	200
	# Student Centred Activities	-	-	5	-	25	-	-	-	-	25
	Total	12	-	28	75	300	300	-	250	-	925

* Common with other diploma programmes

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.