

## 7. STUDY AND EVALUATION SCHEME FOR DIPLOMA PROGRAMME IN ELECTRONICS AND COMMUNICATION ENGINEERING

(For the State of Haryana)

### FIRST SEMESTER (Electronics and Communication)

Sr. No	Subject	STUDY SCHEME			EVALUATION SCHEME						Total Marks
					Internal Assessment		External Assessment (Examination)				
					Theory	Practical	Written Paper		Practical		
					Max. Marks	Max. Marks	Max. Marks	Hrs	Max. Marks	Hrs	
Hrs/week											
L	T	P									
1.1*	Communication Skills-I	3	-	2	25	25	100	3	50	2	200
1.2*	Applied Mathematics-I	4	1	-	50	-	100	3	-	-	150
1.3*	Applied Physics – I	4	-	2	25	25	100	3	50	3	200
1.4*	Applied Chemistry-I	2	-	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		-	-	4	-	25	-	-	-	-	25
Total		13	1	26	125	250	500	-	375	-	1250

\* Common with that of other Diploma Programmes

+ Including 25 marks for Viva-voce

# 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.

**SECOND SEMESTER (Electronics and Communication)**

Sr. No	Subject	STUDY SCHEME			EVALUATION SCHEME						Total Marks	
					Internal Assessment		External Assessment (Examination)					
		Theory	Practical	Written Paper		Practical						
		Max. Marks	Max. Marks	Max. Marks	Hrs	Max. Marks	Hrs					
Hrs/week												
L	T	P										
2.1*	Communication Skills –II	3	-	2	25	25	100	3	50	2	200	
2.2*	Applied Mathematics-II	4	1	-	50	-	100	3	-	-	150	
2.3*	Applied Physics – II	3	-	2	25	25	100	3	50	3	200	
2.4*	Applied Chemistry-II	2	-	2	25	25	100	3	50	3	200	
2.5+	Basic Electrical Engineering	3	-	2	25	25	100	3	50	3	200	
2.6+	Analog Electronics-I	4	-	2	25	25	100	3	50	3	200	
2.7*	General Workshop Practice-II	-	-	6	-	50	-	-	**100	3	150	
#	<i>Student Centred Activities</i> including Ecology and Environmental Awareness Camp	-	-	4	-	25	-	-	-	-	25	
Total		19	1	20	175	200	600		350		1325	

\* Common with that of other Diploma Programmes

\*\* Including 25 marks for Viva-voce

+ Common with that of Diploma Programmes in Computer Engineering, IT, Instrumentation and Control

# 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.

**THIRD SEMESTER(Electronics and Communication)**

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	
3.1	Analog Electronics-II	4	-	2	25	25	100	3	50	2	200
3.2+	Electronics Component & Materials(ECM)	4	-	-	50	-	100	3	-	-	150
3.3	Principle of communication Engineering	3	-	3	25	25	100	3	50	2	200
3.4	Digital Electronics-I	4	-	3	25	25	100	3	50	2	200
3.5	Electrical Machines	3	-	3	25	25	100	3	50	2	200
3.6	Electronic Instruments and Measurement	4	-	3	25	25	100	3	50	2	200
# Student Centred Activities				4	-	25	-	-	-	-	25
Total		22		18	175	150	600	-	250		1175

\* Common with that of other Diploma Programmes

+ Common with that of Diploma Programmes in Comp Engg, IT, Instrumentation and Control

# 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.

**FOURTH SEMESTER(Electronics and Communication)**

Sr. No	Subject	STUDY SCHEME			EVALUATION SCHEME						Total Marks	
					Internal Assessment		External Assessment (Examination)					
		Theory	Practical	Written Paper		Practical						
		Max. Marks	Max. Marks	Max. Marks	Hrs	Max. Marks	Hrs					
Hrs/week												
L	T	P										
4.1	Network, filter and Transmission Lines	4	-	3	25	25	100	3	50	2	200	
4.2	Communication Engineering –I	4	-	3	25	25	100	3	50	2	200	
4.3	Computer Programming and Applications	3	-	3	25	25	100	3	50	2	200	
4.4	Digital Electronics-II	3	-	3	25	25	100	3	50	2	200	
4.5	Microprocessor and Applications	4	-	3	25	25	100	3	50	2	200	
4.6	Minor Project Work	-	-	3	-	50	-	-	50	-	100	
# Student Centred Activities including Entrepreneurial Awareness Camp		-	-	4	-	25	-	-	-	-	25	
Total		18	-	22	125	200	500	-	300	-	1125	

\* Common with that of other Diploma Programmes

+ Common with that of Diploma Programmes in Comp Engg, IT, Instrumentation and Control

# 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.

**FIFTH SEMESTER(Electronics and Communication)**

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	
5.1	Consumer Electronics	3	-	3	25	25	100	3	50	3	200
5.2	Maintenance of Computer Systems (MOCS)	3	-	3	25	25	100	3	50	3	200
5.3	Trouble Shooting of Electronic Equipments	-	-	6	-	100	-	-	50	3	150
5.4	Communication Engineering -II	3	-	3	25	25	100	3	50	3	200
5.5	Elective-I	3	-	3	25	25	100	3	-	-	200
5.6+	Power Electronics	4	-	2	25	25	100	3	50	3	200
# Student Centred Activities		-	-	4	-	25	-	-	-	-	25
Total		16	-	24	125	300	500	-	250	-	1175

**Elective-I** To choose one from the following:

- (1) Optical Fiber Communication
- (2) Advanced Microprocessors

+ Common with Instrumentation and Control

# 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.

**SIXTH SEMESTER(Electronics and Communication)**

Sr. No	Subject	STUDY SCHEME			EVALUATION SCHEME						Total Marks	
					Internal Assessment		External Assessment (Examination)					
					Theory	Practical	Written Paper		Practical			
					Max. Marks	Max. Marks	Max. Marks	Hrs	Max. Marks	Hrs		
Hrs/week												
L	T	P										
6.1	Medical Electronics	4	-	-	50	-	100	3	-	-	150	
6.2	Instrumentation	4	-	3	25	25	100	3	50	-	200	
6.3	Digital and Data Communication	5	-	3	25	25	100	3	50	3	200	
6.4	Elective-II	4	-	-	50	-	100	3	-	-	150	
6.5*	Entrepreneurship Development and Management	3	-	-	50	-	100	3	-	-	150	
6.6	Major Project Work	-	-	10	-	200	-	-	100	3	300	
#	Student Centred Activities	-	-	4	-	25	-	-	-	-	25	
Total		20	-	20	200	175	500	-	200	-	1175	

Elective – To choose one from the following:

- (1) Micro Controller and PLCs,
- (2) Computer Organisation and Architecture

\* Common with that of 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..