

**Study and Evaluation Scheme for Diploma Programme in Electronics and Communication Engineering
(For J&K State)**

FIRST SEMESTER

SR. NO.	SUBJECTS	STUDY SCHEME Hrs/Week		MARKS IN EVALUATION SCHEME									Total Marks of Int. & Ext.
				INTERNAL ASSESSMENT			EXTERNAL ASSESSMENT						
				Th	Pr	Tot	Th	Hrs	Pr	Hrs	Tot		
1.1	*English and Communication Skills – I	3	2	15	10	25	100	3	50	3	150	175	
1.2	*Applied Mathematics - I	5	-	25	-	25	100	3	-	-	100	125	
1.3	*Applied Physics – I	4	2	15	10	25	100	3	50	3	150	175	
1.4	*Basics of Information Technology	-	4	-	25	25	-	-	75	3	75	100	
1.5	*Engineering Drawing – I	-	8	-	50	50	100	4	25+ viva	-	125	175	
1.6	*General Workshop Practice – I	-	8	-	50	50	-	-	75+25+	3	100	150	
#	Student Centred Activities	-	4	-	25	25	-	-	-	-	-	25	
	Total	12	28	55	170	225	400	-	300	-	700	925	

* Common Course with other diploma programmes

+ 25 marks for viva-voce.

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.

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SECOND SEMESTER

SR. NO.	SUBJECTS	STUDY SCHEME Hrs/Week		MARKS IN EVALUATION SCHEME								Total Marks of Int. & Ext.
				INTERNAL ASSESSMENT			EXTERNAL ASSESSMENT					
				Th	Pr	Tot	Th	Hrs	Pr	Hrs	Tot	
2.1	*English and Communication Skills - II	3	2	15	10	25	100	3	50	3	150	175
2.2	*Applied Mathematics – II	5	-	25	-	25	100	3	-	-	100	125
2.3	* Applied Physics-II	4	2	15	10	25	100	3	50	3	150	175
2.4	**Basic Electrical Engineering	4	2	15	10	25	100	3	50	3	150	175
2.5	**Basic Electronics	4	2	15	10	25	100	3	50	3	150	175
2.6	*General Workshop Practice – II	-	6	-	50	50	-	-	75+25+	3	100	150
# Student Centred Activities		-	6	-	25	25	-	-	-	-	-	25
Total		20	20	85	115	200	500	-	300	-	800	1000

* Common Course with other diploma programmes

** Common Course with diploma programmes in Computer Engineering, IT and Medical Electronics

+ 25 marks for viva-voce.

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.

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THIRD SEMESTER

Sr. No.	SUBJECTS	STUDY SCHEME Hrs/Week		MARKS IN EVALUATION SCHEME								Total Marks of Internal & External
				INTERNAL ASSESSMENT			EXTERNAL ASSESSMENT					
				Th	Pr	Tot	Th	Hrs	Pr	Hrs	Tot	
3.1	*Electronic Instruments and Measurement	4	2	15	10	25	100	3	50	3	150	175
3.2	Principles of Communication Engineering	4	2	15	10	25	100	3	50	3	150	175
3.3	**Digital Electronics	4	3	15	10	25	100	3	50	3	150	175
3.4	*Electronic Devices and Circuits	4	3	15	10	25	100	3	50	3	150	175
3.5	*Electronics Design and Fabrication Techniques	-	6	-	25	25	-	-	100	3	100	125
3.6	*Computer Programming and Applications	2	3	15	10	25	100	3	50	3	150	175
# Student Centred Activities (SCA) including Ecology and Environmental Awareness Camp		-	3	-	25	25	-	-	-	-	-	25
Total		18	22	75	100	175	500	-	350	-	850	1025

* Common with diploma programme in Medical Electronics

** Common with diploma programme in Medical Electronics, Computer Engineering and Information Technology

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.

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FOURTH SEMESTER

Sr. No.	SUBJECTS	STUDY SCHEME Hrs/Week		MARKS IN EVALUATION SCHEME								Total Marks of Internal & External
				INTERNAL ASSESSMENT			EXTERNAL ASSESSMENT					
				Th	Pr	Tot	Th	Hrs	Pr	Hrs	Tot	
4.1	Network Filters and Transmission Lines	3	3	15	10	25	100	3	50	3	150	175
4.2	Communication System – I	4	3	15	10	25	100	3	50	3	150	175
4.3	Power Electronics	4	3	15	10	25	100	3	50	3	150	175
4.4	**Microprocessor	4	3	15	10	25	100	3	50	3	150	175
4.5	Electrical Machines	4	3	-	50	50	-	-	75+25 [^]	3	100	150
4.6	*Generic Skills and Entrepreneurship Development	3	-	25	-	25	100	3	-	-	100	125
# Student Centred Activities(SCA) including Entrepreneurial Awareness camp		-	3	-	25	25	-	-	-	-	-	25
Total		22	18	85	115	200	500	-	300	-	800	1000

* Common with other diploma programmes

** Common with Electronics and Communication Engineering, Computer Engineering and Information Technology

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.

Industrial Training

After examination of 4th Semester, the students shall go for training in a relevant industry/field organisation for a minimum period of 4 weeks and shall prepare a diary. It shall be evaluated during 5th semester by his/her teacher for 50 marks. The students shall also prepare a report at the end of training and shall present it in a seminar, which will be evaluated for another 50 marks. This evaluation will be done by HOD and lecturer in charge – training in the presence of one representative from training organisation.

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FIFTH SEMESTER

Sr. No.	SUBJECTS	STUDY SCHEME Hrs/Week		MARKS IN EVALUATION SCHEME								Total Marks of Internal & External
				INTERNAL ASSESSMENT			EXTERNAL ASSESSMENT					
		Th	Pr	Th	Pr	Tot	Th	Hrs	Pr	Hrs	Tot	
Industrial Training		-	-	-	50	50	-	-	50	Viva voce	50	100
5.1	*Consumer Electronics	4	3	15	10	25	100	3	50	3	150	175
5.2	Trouble Shooting of Electronic Equipment	-	4	-	50	50	-	-	50	3	50	100
5.3	Communication System - II	4	2	15	10	25	100	3	50	3	150	175
5.4	Micro Controllers and Embedded System	4	2	15	10	25	100	3	50	3	150	175
5.5	+Instrumentation and PLCs	4	4	15	10	25	100	3	50	3	150	175
5.6	Personal Computer Organization (PCO)	3	3	15	10	25	100	3	50	3	150	175
#	Student Centred Activities including Personality Development Camp	-	3	-	25	25	-	-	-	-	-	25
Total		19	21	75	175	250	500	-	350	-	850	1100

* Common with diploma programme in Medical Electronics

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.

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SIXTH SEMESTER

Sr. No.	SUBJECTS	STUDY SCHEME Hrs/Week		MARKS IN EVALUATION SCHEME								Total Marks of Internal & External
				INTERNAL ASSESSMENT			EXTERNAL ASSESSMENT					
				Th	Pr	Tot	Th	Hrs	Pr	Hrs	Tot	
6.1	+Computer Networks	4	3	15	10	25	100	3	50	3	150	175
6.2	**Elective	4	2	15	10	25	100	3	50	3	150	175
6.3	Microwave and Radar Engineering	3	3	15	10	25	100	3	50	3	150	175
6.4	Wireless and Mobile Communication	4	2	15	10	25	100	3	50	3	150	175
6.5	* Basics of Management	3	-	25	-	25	100	3	-	-	100	125
6.6	Major Project Work	-	8	-	100	100	-	-	200	3	200	300
#	Student Centred Activities(SCA)	-	4	-	25	25	-	-	-	-	-	25
	Total	18	22	85	165	250	500	-	400	-	900	1150

* Common with other diploma programmes

** Elective - To choose one from the following:

(a) Optical Fibre Communication

(b) VLSI System Design

(c) Digital Signal Processing

+ Common with diploma programmes in Computer Engg and IT in 4th Semester.

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.