

**STUDY AND EVALUATION SCHEME FOR
DIPLOMA PROGRAMME IN ELECTRONICS AND COMMUNICATION ENGINEERING
(for the State of J&K)**

First Semester (ECE)

Sr.No/ Code		STUDY SCHEME				EVALUATION SCHEME						Total Marks
		L	T	P	Cr.	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*	Fundamentals of Electrical Engineering	3	-	2	4	15	10	100	3	50	3	175
1.5*	Basics of Information Technology	-	-	4	2	-	25	-	3	50	3	75
1.6*	Engineering Drawing-I	-	-	6	3	-	25	100	4	25 (Viva) [^]	2	150
1.7*	General Workshop Practice-I	-	-	6	3	-	25	-	-	75+25 [^]	3	125
	# Student Centered Activities	-	-	3	2	-	25	-	-	-	-	25
Total		15	-	25	28	70	130	500	-	325	-	1025

* Subject common with that of other Diploma Programmes viz: Civil, Mechanical, and Automobile Engineering

[^] 25 marks for Viva-voce to be conducted along with the practical/ drawing examination

The students will show all the Drawing Sheets made during the semester at the time of viva voce examination of Engineering Drawing

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.

L – Lecture(Hours/week): T- Tutorial (Hours/week) P- Practical (Hours/ week) Cr- Credit(s)

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.

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Second Semester (ECE)

Sr.No/ Code		STUDY SCHEME				EVALUATION SCHEME						Total Marks
						External Assessment (Examination)						
		L	T	P	Cr.	Theory	Practical	Written Paper		Practical		
						Max. Marks	Max. Marks	Max. Marks	Hrs	Max. Marks	Hrs	
(Hrs/ Week)												
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+	Electronic Components and Materials	3	-	-	3	25	-	100	3	-	-	125
2.5+	Basic Electronics	4	-	2	5	15	10	100	3	50	3	175
2.6++	General Engineering	4	-	2	5	15	10	100	3	50	3	175
2.7*	General Workshop Practice-II	-	-	6	3	-	25	-	-	75+25 [^]	3	125
	# Student Centered Activities including Ecology and Environment Awareness Camp	-	-	3	2	-	25	-	-	-	-	25
Total		23	-	17	32	110	90	600	-	300	-	1100

* Subject common with that of other Diploma Programmes viz: Civil, Mechanical and Automobile Engineering

+ Common with I&C, Computer Engg,

[^] 25 marks for Viva-voce to be conducted along with the practical/ drawing examination

The students will show all the Drawing Sheets made during the semester at the time of viva voce examination of Engineering Drawing

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.

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Third Semester (ECE)

Sr.No/ Code		STUDY SCHEME 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	Electronic Devices and Circuits	4		2	5	15	10	100	3	50	3	175
3.2	Electronic Instruments and Measurements	4		2	4	15	10	100	3	50	3	175
3.3	Principles of Communication Engineering	4		2	5	15	10	100	3	50	3	175
3.4	Digital Electronics	4		2	5	15	10	100	3	50	3	175
3.5	Electronic Drawing, Design and Fabrication Techniques	2		4	4	15	10	100	3	50	3	175
3.6	Computer Programming and Applications	2		4	4	15	10	100	3	50	3	175
	# Student Centered Activities	-	-	4	2	-	25	-	-	-	-	25
Total		20	-	20	29	90	85	600	-	300	-	1075

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.

**STUDY AND EVALUATION SCHEME FOR
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Fourth Semester (ECE)

Sr.No/ Code		STUDY SCHEME 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+	Electrical Machines	4		2	5	15	10	100	3	50	3	175
4.2	Communication Systems	4		2	5	15	10	100	3	50	3	175
4.3	Network Filters and Transmission Lines	4		2	5	15	10	100	3	50	3	175
4.4	Microprocessors and Applications	4		2	5	15	10	100	3	50	3	175
4.5	Fundamentals of Electronic Instrumentation	4		2	5	15	10	100	3	50	3	175
4.6	Minor Project Work	-		6	3	-	100	-	3	100	3	200
	# Student Centered Activities including Entrepreneurial Awareness Camp	-	-	4	2	-	25	-	-	-	-	25
Total		20	-	20	30	75	175	500	-	350	-	1100

+ 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.

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.

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Fifth Semester (ECE)

Sr.No		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					
		L	T	P	Cr.	(Hrs/ Week)						
5.1	Microwave and Radar Engineering	4		2	5	15	10	100	3	50	3	175
5.2	Troubleshooting of Electronic Equipment	-		6	3	15	10	100	3	50	3	175
5.3	Elective – I	4		2	5	15	10	100	3	50	3	175
5.4	Power Electronics	4		2	5	15	10	100	3	50	3	175
5.5	Advanced Microprocessors	4		2	5	15	10	100	3	50	3	175
5.6	Consumer Electronics	4		2	5	15	10	100	3	50	3	175
	# Student Centered Activities	-	-	4	2	-	25	-	-	-	-	25
Total		20	-	20	30	90	85	600	-	300		1075

Elective I : To choose any one from the following

- 1) Computer Organisation and Networking 2) Medical Electronics

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.

**STUDY AND EVALUATION SCHEME FOR
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Sixth Semester (ECE)

Sr. No/ Code		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					
		L	T	P	Cr.	(Hrs/ Week)						
6.1	Mobile Communication	4		2	5	15	10	100	3	50	3	175
6.2	Micro controllers and Embedded Systems	4		2	5	15	10	100	3	50	3	175
6.3	Digital and Data Communication	4		2	5	15	10	100	3	50	3	175
6.4	Elective-II	4		2	5	15	10	100	3	50	3	175
6.5	* Entrepreneurship Development and Management	4		-	4	25	-	100	3	-	-	125
6.6	Major Project Work	-		8	4	-	100	-	-	200	3	300
	# Student Centered Activities	-	-	4	2	-	25	-	-	-	-	25
Total		20	-	20	30	85	165	500	-	400	-	1150

Elective II : To choose any one from the following

(1) Digital Signal Processing (2) Digital System design

* Common with other Branches of 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.

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 cent red activities.