

**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.

**STUDY AND EVALUATION SCHEME FOR
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(for the State of J&K)**

Second Semester (ECE)

| Sr.No/ Code | | STUDY SCHEME L T P Cr. (Hrs/ Week) | | | | EVALUATION SCHEME | | | | | | Total Marks |
|----------------|--------------------------------------------------------------------------------|-----------------------------------------------|----------|-----------|-----------|-----------------------------------|------------|---------------|----------|--------------------|----------|----------------|
| | | | | | | 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+ | 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.

**STUDY AND EVALUATION SCHEME FOR
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(for the State of J&K)**

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.

**STUDY AND EVALUATION SCHEME FOR
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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.