

ENGINEERING AND TECHNOLOGY GROUP

ELECTRONICS TECHNOLOGY

Scheme of Examination

Std. XI

Paper	Title of the Paper	Theory		Practical		Term work	Project work	I.V. *	Total Marks
		Marks	Time (Hrs)	Marks	Time (Hrs)				
1	Basic Electricity	80	3	80	3	20	10	10	200

* IV = Industrial Visits

Introduction

Electronics Technology is one of the important Higher Secondary vocational course under Engineering and Technological group introduced by the state government from the academic year 1988-1989. The state board revised syllabus as per NSQF (National Skills Qualification Framework). This policy is decided by National Skill Development Corporation (NSDC) under HRD ministry of Government of India to nurture technological advancement & Skill development for job opportunities in various Electronic sectors.

The syllabus of Electronics Technology sector has been evolved in such a way that after completion of the course of two years (Std. XI) [L3] and (Std. XII) [L4] The student would acquire good working skills suited to work as a skilled person in industry. He would also gain knowledge for electronic technician, electronics sales & service.

Objectives

On completion of the course, the student will gain.

- Knowledge of working & operating principles of electronic circuits & equipments.
- Skills for fault analysis and diagnosis of electronic equipment, repair & replacement of faulty parts.
- Skills on assembly, testing, repair, maintenance and installation of electronic equipment.
- Ability to examine schematic layouts wiring diagrams and product details.
- Knowledge of entrepreneurship activities.
- Awareness of safety precautions.

Job Opportunities

After successful completion the course the student can have opportunities in the following fields with acquiring professional skills.

- Audio & TV technician.
- Computer hardware technician.
- Electronics servicing sector.
- Electronic technician.
- Sales & service in consumer electronics.
- Service person in telecom sector.
- Entrepreneur.

Future Education

If student desires he can take admission to direct second year diploma course and also go for higher education.

Std. XI
Paper I: Basic Electricity Theory

Sr. No.	Unit	Sub-Unit	Periods
1.	Electrical Safety and Tools	1.1 Electrical Symbols	20
		1.2 Electrical safety	
		1.3 Tool Kit	
2.	Introduction to Electricity	2.1 Basic Electrical Terms	25
		2.2 Basic Networks and circuit terminology	
		2.3 Electrical Laws	
3.	Study of Electronic Components	3.1 Passive Components	25
		3.2 Active Components	
		3.3 PCB and Soldering	
4.	Electrostatics	4.1 Electrostatics	12
5.	Magnetism and Electromagnetism	5.1 Magnetism	14
		5.2 Electromagnetism	
6.	A C Circuits	6.1 AC fundamentals	12
		6.2 Resonance	
7.	Electrical Measurements	7.1 Meters	12
Total Periods			120