

ELECTRONICS TECHNOLOGY

Scheme of Examination

Std. XII

| Paper | Title of the Paper | Theory | | Practical | | Term work | Project work | I.V. * | OJT ** | Total Marks |
|-------|--|--------|------------|-----------|------------|-----------|--------------|--------|--------|-------------|
| | | Marks | Time (Hrs) | Marks | Time (Hrs) | | | | | |
| 2 | Modern Instruments & Communication systems | 80 | 3 | 80 | 3 | 10 | 10 | 10 | 10 | 200 |

* IV = Industrial Visits ** OJT = On Job Training

Practical

| Sr. No. | List of Practical's | Periods |
|---------|---|------------|
| 1. | Study of Thermistor NTC, PTC. | 9 |
| 2. | Use of condenser microphone as a sound transducer. | 9 |
| 3. | Study and re-coning of the loud speaker. | 9 |
| 4. | Study V-I characteristic of photo cell. | 9 |
| 5. | Study and use of Opto coupler in any circuit. | 9 |
| 6. | Construct multi range ammeter using galvanometer. | 9 |
| 7. | Construct multi range voltmeter using galvanometer. | 9 |
| 8. | Study the front panel controls of CRO. | 9 |
| 9. | Measure frequency time period and AC/ DC Voltage using CRO. | 9 |
| 10. | Measure phase difference using lissajous patterns of CRO. | 9 |
| 11. | Construct and study AM Modulator circuit. | 9 |
| 12. | Construct simple diode detector circuit. | 9 |
| 13. | Construct and study FM transmitter circuit. | 9 |
| 14. | Installation of DTH. | 9 |
| 15. | Downloading of various Android Applications for cell phones. | 9 |
| 16. | Demonstration of Fiber optic communication. | 9 |
| 17. | Study of television controls. | 9 |
| 18. | Demonstration of working of LED and LCD TV. | 9 |
| 19. | Study the working of MP3 music system, Mixer-Juicers. | 9 |
| 20. | Study the working of Microwave, Washing machine, Air conditioner. | 9 |
| 21. | Project, Industrial Visit, O.J.T. | 60 |
| | Total | 240 |