



RECRUITMENT CELL
NATIONAL INSTITUTE OF TECHNOLOGY TIRUCHIRAPPALLI – 620 015.

Syllabus for the Skill and Main Tests for the post of Technical Assistant

Group III – Allied Sciences

| DEPT. | SYLLABUS |
|-----------|--|
| PHYSICS | Fire safety - Electrical safety- Electrical voltage and current-AC/DC - MCB/PCB- Circuit continuity Magnetic field- electromagnet-Ammeter-Voltmeter-Grating-LASER-Rheostat- Magnet-Wire thickness measurement- Prism-optical fiber-Spectrometer - Light sources - light to current conversion - Chemical safety |
| CHEMISTRY | Preparation of solutions, molarity, molality, normality, indicators used in acid-base titrations, buffer solutions, Determination of hardness (EDTA method) and dissolved oxygen (Wrinkler's method) in water sample, Estimation of Fe^{3+} by spectrophotometer, Beer-Lambert's law, Conductometric titration (strong acid versus strong base), litmus paper, bleaching powder. |