| CHEMISTRY LAB | | | | | | | |
|---------------|---|--|--|----------|--|--|--|
| S.N O. | NAME OF THE EXPERIMENT | NAME OF THE APPARATUS /EQUIPMENT | MAKE | Quantity | | | |
| 1 | Measurement of 10Dq by Spectro photometric method. | Spectro photometer set, Steam bath, CrCl3.6H2O, Cr(H2O)6(NO3)2.3H2O, Charcoal, Ethylenediamine, Ethanol, Hydrochloric acid, Acetyl acetone, Urea, Benzene, Hexane or Heptane. | M/s. Scientific Enterprises, Hyderabad | 01 | | | |
| 2 | Conducto metric titration of strong acid vs. strong base. | Conducto meter set with conductivity cell, Burette, Pipette, Conical flask, Standard flask Hydrochloric acid, Sodium hydroxide, Distilled water. | | 03 | | | |
| 3 | Conducto metric titration of weak acid vs. strong base. | Conducto meter set with conductivity cell, Burette, Pipette, Conical flask, Standard flask, Acetic acid, Sodium hydroxide, Distilled water. | | 03 | | | |
| 4 | Determination of cell constant and conductance of solutions. | Conducto meter set with conductivity cell, Conductivity cell, beaker, Standard flask, Potassium chloride, distilled water. | | 03 | | | |
| 5 | Potentiometry - determination of redox potentials and emfs. | Burette, pipette, volumetric flasks, beakers, magnetic stirrer, potentiometer, SCE, platinum indicator electrode, connecting wires, Potassium dichromate, ammonium iron (II) sulphate and sulphuric acid. | | 02 | | | |
| 6 | Determination of Strength of an Acid in Pb-Acid Battery. | Burette, Pippete, Conical flask, Measuring cylinder, Beaker, Wash bottles, Acid from Lead acid battery, NaOH, Oxalic acid, Phenolphthalein indicator. | | - | | | |
| 7 | Preparation of a Polymer (Bakelite). | Beakers, conical flask, Glass rod, measuring cylinders, fractional weight box. Glacial acetic acid, 40% formaldehyde solution, phenol, conc. HCl, distilled water. | | - | | | |
| 8 | Verify Lambert-Beer's law. | Colorimeter cuvette, five test tubes, two 10mLpipets, graduated cylinders two 100 ml beakers test tube rack, stirring rod and tissues. | | 02 | | | |

| 9 | Wavelength measurement of sample through UV-Visible Spectroscopy. | UV-Visible Spectroscopy set with UV light source, sample solutions and Blank solution, monitor. | | 01 |
|----|---|---|-----------|-------|
| 10 | Identification of simple organic compounds by IR. | IR spectroscope set With IR light source, sample solutions, Blank solution. Monitor. | | 01 |
| 11 | Preparation of Nano Materials by Precipitation Method. | Beaker, Measuring jar, Burette, Pipette, Glass rod, Wash bottles, Ferric chloride, Plastic weigh boat, Ferrous chloride, Ammonia, Tetra ethyl ammonium hydroxide. | | - |
| 12 | Estimation of Ferrous Iron by Dichrometry. | 100 ml standard flask, Burette,250 ml Conical Flask,20 ml Pipette, Funnel & Simple balance with Fractional weights, Potassium dichromate, Sulfuric acid, Syrupy Phosphoric acid, Diphenyl amine, Ferrous ammonium sulphate solution, Distilled water. | | - |
| | | | | ~ = 4 |
| | | Total Cost | 11,31,071 | |