

SARDAR PATEL UNIVERSITY
Programme & Subject: M.Sc (Materials Science)
Semester: III
Syllabus with Effect from: June - 2013

Paper Code: PS03CMTS04 Title Of Paper: Practical – I (List Of Experiments For M.Sc. (Materials Science))		Total Credit: 4
	Description in detail	Weightage (%)
	Chemical Analysis of Alloys Volumetric Gravimetric Phase diagram Porosity of ceramics Conductometric Analysis Cell constant Analysis for strong acid & strong base Analysis for weak acid & strong base Analysis for Mixture of acids Solubility of sparingly soluble salts pH metry Analysis of strong acid & strong base Analysis for weak acid & strong base Analysis for Mixture of acids Spectrophotometric Analysis λ_{\max} Strength of unknown solution Refractrometry Refractive Index & Molar reflectivity Analysis of unknown mixture Viscometry Relative viscosity Mol. Weight of Polymers Corrosion Zinc and Al in acid & base Anodization of Aluminium and its corrosion studies Flame photometry Estimation of Na ⁺ ion Estimation of K ⁺ ion Selective Electrode Analysis Gas chromatography Particle size distribution Specific Gravity of powder sample. FTIR Langmur Adsorption Isotherm Studies on carbon - Ash content Carbon content Surface complex Calorific value by Bomb calorimeter	100%

