

SARDAR PATEL UNIVERSITY
Programme: B.Sc (Chemistry)
Semester: III
Syllabus with effect from: JUNE 2012

Paper Code: US03CCHE03	Total Credit: 2
Title Of Paper: Practical	

	Description in detail	
1	Inorganic Mixture: Four radicals. It may include two positive Radicals and two negative radicals. Cd^{+2} , Cu^{+2} , Bi^{+3} , Fe^{+2} , Zn^{+2} , Al^{+3} , Ni^{+2} , Mn^{+2} , Ba^{+2} , Sr^{+2} , Ca^{+2} , Mg^{+2} , NH_4^+ , K^+ , Cl^- , Br^- , I^- , NO_3^- , CO_3^{-2} , S^{-2} , PO_4^{-3} , BO_3^{-3} , SO_4^{-2} , CrO_4^{-2} , $Cr_2O_7^{-2}$ etc.	
2	Volumetric Titration (By self preparation of solution of titrant): Estimation of copper by iodometric method. Determination of total hardness of water sample. Determination of nickel by back titration. Determination of nitrite by back titration.	
3	Preparation of standard solutions.	
4	Paper chromatography.	

Basic Text & Reference Books :-

- Vogel's Testbook of Quantitative Chemical Analysis, 5th Edition By G.H.Jeffery, J.Basset, J.Mendham, R.C.Denney.
- Vogel's Testbook Of Qualitative Inorganic Analysis By G.Svehla
- Practical Chemistry By O.P.Pandey, D.N.Bajpai & S.Giri
- An Advanced Course In Practical Chemistry By Ghoshal, Mahapatra & Nad

