SARDAR PATEL UNIVERSITY

$\label{eq:programme: B.Sc (Chemistry)} \textbf{Programme: B.Sc (Chemistry)}$

Semester: VI

Syllabus with effect from: November/December-2013

Paper Code: US06CCHE07	Total Credit: 2
Title Of Paper: Physical Chemistry Practical	

	Description in detail	
1	Chemical kinetics of a reaction between K ₂ S ₂ O ₈ and KI in an aqueous system.	
2	The study of Decomposition Rate of hydrogen peroxide in presence of catalyst and	
	catalyst with promoter.	
3	The study of Rate of Reaction between hydrogen peroxide and KI in an aqueous media.	
4	To determine the Rate Constant for the reaction between KBrO ₃ and KI in an aqeous	
	media.	
5	The Distribution coefficient of Benzoic acid distributed between water and kerosene	
6	To study the Adsorption of acid on Activated charcoal.	
7	To determine Molecular weight of polymer by using Ubbelhold Viscometer	
8	To determine the Composition of Binary liquid mixture through the viscosity	
	measurement.	
9	To determine the Molar and Specific Refraction of pure liquids through the	
	measurement of refractive index.	
10	To determine the Composition of a Binary liquid mixture by Refractrometry.	
11	To determine the Concentration of KMnO ₄ / K ₂ Cr ₂ O ₇ by Colourimetry.	
12	To study the effect of addition of NaCl and Succinic acid on Critical Solution	
	Temperature (CST) of phenol –Water system.	
13	Viva Voce	

Basic Text & Reference Books:-

- > Experimental Physical Chemistry by R.C.Das & B.Behera
- ➤ Advanced Physical Chemistry by J.B.Yadav

