



OP JINDAL UNIVERSITY, RAIGARH

Department of Applied Chemistry

CHEMISTRY LABROTARY EXPERIMENTS – 1st Semester

CODE: CHM 1102

1. Determination of the chloride content in a given water sample by Mohr's method (AgNO_3 , Cl^- titration)
2. Determination of the Dissolved Oxygen in a given water sample by Winkler's method (Std. thiosuphate solution titration using starch as indicator)
3. Determination of temporary & permanent hardness of water sample by EDTA method (EDTA titration using EBT Indicator)
4. Study of the kinetics of acid decomposition of Thiosulfate Ion with HCl
5. Determination of the concentration dependence of the electric conductivity in aqueous solutions of a strong electrolyte at room temperature (**using data loggers with conductivity probe and drop counters**)
6. To study the neutralization titration curves for strong acid and base (**using data loggers with pH probe and drop counters**)
7. **ICT Exercise in Chemistry:** Determination of order and rate constant of reaction using a spreadsheet and graphical techniques