**Course No: PGCHM17G309**

## Title: Analytical Chemistry-III (02 Credits)

*Max. Marks: 50* *Duration: 32 Contact hours*

*Continuous Internal Assessment: 10 Marks* *End Semester: 40 Marks*

**Unit 1: Potentiometric Methods of Analysis**

Potentiometry Underlying principle, EMF Measurements. Electrodes and types of electrodes, Reference Electrodes, Metallic Indicator Electrodes, Membrane Electrodes, Analytical and environmental Applications of potentiometry.

**Unit II: pH metric method of analysis**

*pH* scale, *pH* Metry: underlying principle, Glass electrode: construction and working, Combined electrode, Instrumentation, instrument calibration, Analytical and environmental Applications of *pH* metry

**Books Recomanded:**


1. Analytical Chemistry, Gary D-Christian: 6th Eds. Wiley 2010.
2. Vogels Text book of Quantitative Analysis, 5th Eds. Jeferry Bassett ELBS 1996.
3. Modern Analytical Chemistry David Harvey, 1st Eds. Mc Grath Hill 2000
4. Quantitative Analysis:Day Underwood 6th Eds Printice Hall 1993