

BS (4 Years) for Affiliated Colleges



Code	Subject Title	Cr. Hrs	Semester
CHEM-431	Analytical Chemistry (Sp. Theory-I)	4	VIII
Year	Discipline		
4	Chemistry		

SYLLABUS OUTLINE:

Voltrametry:

Principle and applications of anodic stripping voltametry

Polarography:

Introduction and principle of polarography, basic instrumentation, working and advantages of DME (dropping mercury electrode); limiting and residual current; half-wave potential; qualitative and quantitative aspects of polarographical analysis

Amperometry:

Conductometry:

Conductance in Solutions; Specific conductance; molar conductance; factors upon which the conductance of solution depends; Measurement of conductance; cell constant; Analytical applications of conductance measurement.

Arc / Spark / Glow, Automation:

RECOMMENDED BOOKS:

1. Vogels, s text book of quantitative inorganic analysis by J. Bassett. The English language book Society and Longman.
2. Vogels, text book of Quantitative chemical analysis by J.mendham, RC Denny, JDBarnes, MJ KTHomas, Pearson education Ltd.