



Code	Subject Title	Cr. Hrs	Semester
CHEM-320	Analytical Chemistry Lab	2	VI
Year	Discipline		
3	Chemistry-I, II		

SYLLABUS OUTLINE:**Flame Emission / Spectrophotometry:**

Determination of Sodium in tap water by using Flame Photometer.
 Determination of Potassium in tap water by using Flame Photometer.
 Find out the calcium in chalk sample by flame photometry.
 Determination of Ba by flame photometry.
 Estimation of purity of various compounds on the base of flame emission Spectrophotometry.
 Indirect determination of various compounds by flame photometric techniques.
 Determination of λ_{max} of $KMnO_4$ and $K_2Cr_2O_7$ by using spectrophotometer.
 Verification of Beer and Lambert Law.
 Ultraviolet spectrophotometric determination of Aspirin, Phenacetone and Caffeine in APC tablet using Solvent Extraction.

RECOMMENDED BOOKS:

1. Vogel's text book of quantitative inorganic analysis by J. Bassett. The English language book Society and Longman
2. Flame spectrometry in environmental chemical analysis. A practical guide (RSc) analytical spectroscopy series by Malcolm Cresser, Alfred Sanz Medel, [http// www.Amazon.co.uk](http://www.Amazon.co.uk)