

BS (4 Years) for Affiliated Colleges



Code	Subject Title	Cr. Hrs	Semester
CHEM-436	Applied Chemistry (Sp. Practical)	2	VIII
Year	Discipline		
4	Chemistry		

SYLLABUS OUTLINE:

Petroleum:

Determination of diesel index, Aniline point and Pour point of lubricating oil.

Water Pollution:

Heavy metals in industrial effluents by AAS.

Industrial Analysis:

Sucrose in sugar cane juice using polarimetry.

Isolation and determination of casein, lactose and fat in milk.

Analysis of effluents from leather tanneries.

Assay of pharmaceutical products like aspirin, paracetamol, and chloramphenicol using spectroscopic techniques.

Spectrometry:

Simultaneous determination of chromium and manganese in steel.

Determination of pK value of indicators (methyl orange and methyl red).

Polymer:

Depolymerization of polyethylene terephthalate.

Catalytic degradation of polythene.

RECOMMENDED BOOKS:

1. Metallurgical Analysis, Lord (1893).
2. Applied Chemistry Theory and Practice, O.P. Vermani & A.K. Narula, Wiley Eastern Limited (1989).
3. T. B. of Quantitative Inorganic Analysis, Vogel's Ed-4th, Longman Group Limited (1978).
4. Practical Statistics for the Analytical Scientist, A Bench Guide, RSC Publishing, LGC Ltd 2009.
5. Dyes and Dyeing, C. E. Pellew, Abhishek Publishers (1998).
6. Experiments in Physical Chemistry, David P. Shoemaker, McGraw Hill International (1996).