

PAPER CODE: 1SC2030315	TITLE OF PAPER: ANALYTICAL CHEMISTRY PRACTICAL
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Teaching scheme (hours) per week		Credit		Theory Marks		Practical Marks		Total
Theory	Practical	Theory	Practical	University Assessment	Cont. Assessment	University Assessment	Cont. Assessment	
-	8	-	8	-	-	120	80	200

List of Practicals (Minimum 12)	
1	Separation of CO^{2+} & Ni^{2+} by Ion Exchange chromatography.
2	Separation of Ni^{2+} & Fe^{3+} by Ion Exchange chromatography.
3	Separation of Zn^{2+} & Mg^{2+} by Ion Exchange chromatography.
4	To determine the amount of Iron/Calcium in milk powder.
5	Detection of Caffeine in commercial products (Tablet) by TLC.
6	Separation of blue or black Ink/ chlorinated insecticides by paper chromatography.
7	To determine Iodine value of an oil. (Coconut oil, Castor oil, Soybean Oil, Cotton seed oil, etc)
8	To determined % purity of the given sample of Aspirin.
9	Synthesis of Silver/gold nanoparticle by Reducing agent
10	To determine the amount of Iron/Calcium in milk powder.
11	To determine sodium and potassium in blood serum and urine by flame photometer
12	Separation of mixture of drugs by TLC & column chromatography
13	To determine the acidity of lubricating oil sample.
14	Estimation of Isoniazide/Paracetamole by UV-visible spectrophotometry
15	Estimation of Ibuprofen by UV-visible spectrophotometry

List of books

1. Pharmaceutical Analysis Vol-II Aug 12, 2008 by Dr.S.G.Wadodkar and Dr.K.R.Mahadik
2. Pharmaceutical Analysis Vol-II Jun 10, 2008 by Dr.H.N.More and Dr. A.V.Kasture
3. A Textbook of Qualitative Chemical Analysis by Vogel, Arthur I
4. Vogel's Quantitative Chemical Analysis Paperback – 2009 by J.Mendham (Author)
5. Vogel's textbook of quantitative inorganic analysis, including elementary instrumental analysis. Language: English. Edition: 4th ed. / revised by J. Bassett.
6. A text book of practical organic chemistry – A. I. Voge
7. A handbook of quantitative and qualitative analysis – H. T. Clarke
8. An Advance Course in practical Chemistry, A K. Nad, B. Mahapatra and A. Ghoshal.
9. Vogel's Textbook of Quantitative Chemical Analysis, 6 The Edition, 2002
10. Analytical Chemistry Practice, John H. Kennedy, Saunders College Publishing, Second Edition 1990.