

**Khed Taluka Shikshan Prasarak Mandal's
Mandal's Hutatma Rajguru Mahavidyalaya Rajgurunagar**

Affiliated to S.P.Pune University, Pune

NAAC Reaccredited "B++" Grade (CGPA 2083), DST-FIST Recognized

College website: <https://www.hrmrajgurunagar.ac.in>, E-mail: hrmrajguru@yahoo.co.in,

Ph.No. 02135222099

Department of Chemistry

Syllabus Completion Report 2024-25

Teacher Name : Prof. Kolekar S.S.

Class: T.Y.B.Sc.

Paper No.: I (CH-505)

Sem: I Paper Name Inorganic and organic chemistry

Total No.: of Lectures taken: 36

Sr. No.	Chapter No.	Chapter name	No. of Lectures Taken	Month
1	1	Modern Approach to Chemical Industry	08	June and July
2	2	Manufacture of Basic Chemicals	08	July and August
3	3	Sugar and Fermentation Industry	07	August September
4	5	Dyes and Pigments	08	September
5	4	Soap and detergents	05	October

**Subject Teacher
Prof. Kolekar S.S.**

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Department of Chemistry

Syllabus Completion Report 2024-25

Teacher Name : Prof. Kolekar S.S.

Class: S.Y.B.Sc.

Paper No.: I (CH-302)

Sem: I Paper Name Inorganic and organic chemistry

Total No.: of Lectures taken: 36

Sr. No.	Chapter No.	Chapter name	No. of Lectures Taken	Month
1	3	Aromatic Hydrocarbons	05	June and July
2	2	Introduction to Coordination Compounds	05	July and August
3	5	Alcohols, Phenols and Ethers	08	August September
4	4	Alkyl and Aryl Halide	07	September
5	1	Molecular Orbital Theory of Covalent Bonding	11	September and October

**Subject Teacher
Prof. Kolekar S.S.**

K.T.S.P Mandal's
HutatmaRajguruMahavidyala

Rajgurunagar, Tal. Khed Dist. Pune
Syllabus Completion Report Year 2024-25

Class: S. Y. B. Sc., Sem.-I

Name of Paper: Chemistry Practical No. of Lectures allotted per week: 05

Name of Teacher: Prof. Kolekar S.S Batch –B4, B3, B5

Sr. No.	Name of Practical	Each Practical 05L
1	To Study the Acid catalysed hydrolysis of an ester (methyl Acetate) and determine the rate constant (k). (first order reaction)	05 L
2	To study the kinetics of saponification reaction between sodium hydroxide and ethyl acetate	05L
3	Separation and Identification of metal ions by Paper Chromatography	05L
4	Separation of Two Components from given binary mixture of organic compounds containing mono-functional group	05L
5	Separation of Two Components from given binary mixture of organic compounds containing mono-functional group	05L
6	Preparation of benzoic acid from ethyl benzoate	05L
7	To determine equivalence point of neutralisation of acetic acid by pH-metric titration with NaOH and to find best indicator for the titration	05L
8	Estimation of Aspirin from a given tablet and find errors in quantitative analysis.	05L
9	Determination of Hardness of water from given sample by complexometric titration (Using E.D.T.A.) method and total dissolve solids by conductometry.	05L
10	Preparation of Quinone from hydroquinone	05L

Subject Teacher
Prof. Kolekar S.S.