

**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](mailto:hrmrajguru@yahoo.co.in),

Ph.No. 02135222099

**Department of Chemistry**

**Teaching Plan Year 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- 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**

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**Teaching Plan Year 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 - 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

**Teaching Plan 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 –B<sub>4</sub>, B<sub>3</sub>, B<sub>5</sub>

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.**