

Khed Taluka Shikshan Prasarak Mandal's
Hutatma Rajguru Mahavidyalaya, Rajgurunagar
Affiliated to S. P. Pune University, Pune
NAAC Reaccredited "B++" Grade (CGPA 2.83), DST-FIST Recognized
college website: <https://www.hrmrajgurunagar.ac.in>, E-mail: hrmrajguru@yahoo.co.in,
ph. No. 02135222099
Department of Chemistry

Teaching Plan 2023-24

Teacher Name: Prof. Dr. P. S. Kulkarni

Class: T. Y. B. Sc.

Sem.: VI

Paper No.: CH610A

Paper Name: Chemistry of Soil & Agrochemicals

Total No. of Lectures Allotted: 36

Sr. No.	Chapter No.	Chapter Name	Month
1	1	Soil Chemistry	Jan
2	2	Problematic Soil and Soil Testing	Jan- Feb
3	3	Laboratory Methods of Soil Analysis	Feb- March
4	4	Fertilizers and Manures	March- April
5	5	Protection of Plants	April

Signature

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Department of Chemistry

Teaching Plan 2023-24

Teacher Name: Prof. Dr. P. S. Kulkarni

Class: T. Y. B. Sc.

Sem.: VI

Paper No.: CH611A

Paper Name: Analytical Chemistry-II

Total No. of Lectures Allotted: 12

1	1	Solvent Extraction	8	Feb- March
2	2	High Performance Liquid Chromatography	6	March- Apr

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Teaching Plan 2023-24

Teacher Name: Prof. Dr. P. S. Kulkarni

Class: T. Y. B. Sc.

Sem.: VI

Paper No.: 609

Paper Name: Organic Chemistry Practical

Total No. of Lectures Allotted: 73 L

Sr. No.	Practical No.	Practical Name	Month
1	1	Estimation of glucose	Jan
2	2	Estimation of glycine	Jan
3	3	Estimation of Alkali content	Jan
4	4	Caffeine from tea leaves	Feb
5	5	Eugenol from cloves	Feb
6	6	Trimyristin from nutmeg	Feb
7	7	Interpretation of IR spectra of Benzoic acid	Mar
8	8	Interpretation of IR spectra of cis-2-butene & trans-2-butene	Mar
9	9	Interpretation of NMR spectra of Benzoic acid	Mar
10	10	Interpretation of NMR spectra of cis-2-butene & trans-2-butene	Apr
11	11	Separation of aldehyde and carboxylic acid by column chromatography	Apr
12	12	Separation of o-nitrophenol and p-nitrophenol by column chromatography	Apr
13	13	Journal certification	Apr
14	14	Oral	Apr

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Teaching Plan 2023-24

Teacher Name: Prof. Dr. P. S. Kulkarni

Class: T. Y. B. Sc.

Sem.: V

Paper No.: 509

Paper Name: Organic Chemistry Practical

Total No. of Lectures Allotted: 73 L

Sr. No.	Practical No.	Practical Name	Month
1	1	Solid-Solid Mixture No. 1	July
2	2	Solid-Solid Mixture No. 2	July
3	3	Solid-Solid Mixture No. 3	Aug
4	4	Liquid-Liquid Mixture No.4	Aug
5	5	Solid-Liquid Mixture No. 5	Aug
6	6	Solid-Liquid Mixture No. 6	Sep
7	7	Preparation of dibenzalpropanone from benzaldehyde and acetone using LiOH.H ₂ O/NaOH	Sep
8	8	Nitration of phenol or substituted phenols using CaNO ₃	Sep
9	9	Amide derivative of Carboxylic acid	Sep
10	10	Glucosazone derivative of Glucose	Oct
11	11	Preparation p-Iodonitrobenzene from p-Nitroaniline by Sandmeyer Reaction	Oct
12	12	Preparation P-chloro benzoic acid and p-chloro benzyl alcohol from p-chloro benzaldehyde	Oct
13	13	Journal certification	Nov
14	14	Oral	Nov

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Teaching Plan 2023-24

Teacher Name: Prof. Dr. P. S. Kulkarni

Class: T. Y. B. Sc.

Sem.: V

Paper No.: 510A

Paper Name: Organic Chemistry Practical

Total No. of Lectures Allotted: 36

Sr. No.	Chapter No.	Chapter Name	Month
1	1	An Introduction to Drugs, their Action and Immunobiologicals	July-Aug
2	2	Bio-physicochemical Properties in Drug Action and Design	Aug-Sep
3	3	Drugs for Infectious Diseases	Sep-Oct
4	4	Drugs for Non-infectious diseases	Oct