



Rajarshi Shahu Mahavidyalaya, Latur
(Autonomous)
Department of Chemistry & Analytical Chemistry
Structured Work Plan for Teaching (Odd Semester)
Academic Year 2025-26

Details of Classes to be taught:

Sr. No.	Name of Professor	Subject	Class	Course Type	Course Title	Course Code	Total Hours
1	Mr. Akshay Atmaram Bhandare	Analytical Chemistry	B.Sc. II	DSM-I	Analytical Chemistry	201ACH3301	45

Sr. No.	Unit and Chapter to be Covered	Date	No. of Lectures	Academic activities to be organized	No. of Test / Assignment with topic and date
1	Unit -I Introduction to Analytical Chemistry & Organic Analysis	23.06.2025 to 23.07.2025	15	Assignment	CAT -I
2	Unit -II Introduction to Chromatographic Techniques	28.07.2025 to 20.08.2025	10	Seminar	CAT-II
3	Unit - III Introduction to Instrumental Analysis-I	25.08.2025 to 17.09.2025	10	Surprise Test	CAT-III
4	Unit IV Introduction to Instrumental Analysis-II	22.09.2025 to 17.10.2025	10	-	


Teacher


HoD


Principal
Rajarshi Shahu Mahavidyalaya, Latur
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Head
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& Analytical Chemistry,
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Details of Classes to be taught:

Sr. No.	Name of Professor	Subject	Class	Course Type	Course Title	Course Code	Total Hours
1	Mr. Akshay Atmaram Bhandare	Analytical Chemistry	B.Sc. III	DSM-IV	Environmental Analysis	301ACH5303	30

Sr. No.	Unit and Chapter to be Covered	Date	No. of Lectures	Academic activities to be organized	No. of Test / Assignment with topic and date
1	Unit -I Environmental Analysis-I (Air Analysis)	26.06.2025 to 14.08.2025	15	Group Discussion	CAT-I
2	Unit -II Environmental Analysis-II (Water Analysis)	21.08.2025 to 17.10.2025	15	Seminar	CAT-II CAT-III


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Shiv Chhatrapati Shikshan Sanstha's

Rajarshi Shahu Mahavidyalaya, Latur (Autonomous)

Department of Chemistry and Analytical Chemistry
Structured Work Plan for Teaching (Even Semester)

Academic Year 2025-26 (Term-II)

Name of Teacher: Mr. Akshay Atmaram Bhandare

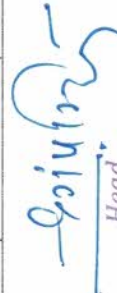


1. Details of Classes to be Taught

Class	Semester	Subject	Course Type	Course Title	Course Code	Credit	Total Teaching Hours
B.Sc. II	Sem IV	Analytical Chemistry	DSM-II	Classical & Advanced Methods of Analysis	201ACH4301	03	45

Sr. No.	Unit and Chapter to be Covered	Date	No. of Hours	Academic Activities to be Organized	No. of Test / Assignment with Topic and Date
1	Unit -I Classification of Analytical Methods	01.12.2025 To 23.12.2025	10	Google Form Quiz	CAT I
2	Unit -II Spectroscopic Methods-I (FES)	29.12.2025 To 21.01.2026	10	Seminar	CAT II
3	Unit -III Gravimetric Methods of Analysis	27.01.2026 To 02.03.2026	15	Group Discussion	CAT III
4	Unit -IV Column chromatography	09.03.2026 To 30.03.2026	10	-	


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Name of Teacher: Mr. Akshay Atmaram Bhandare



2. Details of Classes to be Taught

Class	Semester	Subject	Course Type	Course Title	Course Code	Credits	Total Teaching Hours
M.Sc. II	Sem IV	Chemistry	MEC-IV	Applied Organic Chemistry	602CHE4201	03	45

Sr. No.	Unit and Chapter to be Covered	Date	No. of Hours	Academic Activities to be Organized	No. of Test / Assignment with Topic and Date
1	Unit -I Supramolecular Chemistry	04.12.2025 To 27.12.2025	10	Google Form Quiz	CAT I
2	Unit -II Carbohydrates and Vitamins	01.01.2026 To 31.01.2026	15	Seminar	CAT II
3	Unit -III Green Chemistry-I	05.02.2026 To 28.02.2026	10	Group Discussion	CAT III
4	Unit -IV Green Chemistry-II	05.03.2026 To 31.03.2026	10	-	-

(A.C.)
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1. Details of Classes to be Taught

Class	Semester	Subject	Course Type	Course Title	Course Code	Batch	Credit	Total Hours
B.Sc. II	Sem IV	Analytical Chemistry	DSM-II	Laboratory Course-II	201ACH4302	S ₁ & S ₂	01	30

Sr. No.	Equipment/Type	Experiments	Date [S1]	Date [S2]	No. of Hours
1	Gravimetric Analysis	1. Determination of iron as iron (III) oxide by gravimetric analysis.	01.12.2025	02.12.2025	2 per Practical
2		2. Determination of Aluminium as Aluminium Oxide.			
3		3. Gravimetric estimation of Ba as BaSO ₄ from a solution containing barium chloride and free hydrochloric acid.	08.12.2025	09.12.2025	
4		4. Gravimetric estimation of Ba as Barium Chromate from a solution containing barium chloride.	15.12.2025	16.12.2025	
5		5. Gravimetric estimation of Nickel as [Ni(DMG)2] complex.	22.12.2025	23.12.2025	
6		6. Estimate the amount of Zinc in the given Zinc Sulphate solution Gravimetrically.	29.12.2025	30.12.2025	
7	Flame Photometry	7. Estimation of Na ⁺ by Flame Photometry	05.01.2026	06.01.2026	
8		8. Estimation of K ⁺ by Flame Photometry .	12.01.2026	13.01.2026	
9		9. Estimation of Ca ²⁺ in Egg Shell by Flame Photometry	19.01.2026	20.01.2026	
10	Chromatography	10. Separation of components of a mixture by TLC.	02.02.2026	27.01.2026	
11		11. Separation of amino acids using paper chromatography.	09.02.2026	03.02.2026	
12		12. Column Chromatographic Separation of Inorganic Substances.	16.02.2026	10.02.2026	
13		13. Separation of ink components by column chromatography.	23.02.2026	17.02.2026	
14	Colorimetry	14. Estimation of amino acids by colorimetry.	02.03.2026	24.02.2026	
15		15. Colorimetric estimation of proteins by biuret method.	09.03.2026	03.03.2026	

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Name of Teacher: Mr. Akshay Atmaram Bhandare

1. Details of Classes to be Taught

Class	Semester	Subject	Course Type	Course Title	Course Code	Batch	Credits	Total Teaching Hours
M.Sc. II	Sem IV	Chemistry	MMC-XII	Laboratory Course-XV	602CHE4106	P ₁ C ₁ & P ₂ C ₂	01	30

Sr. No.	Equipment/Type	Experiments	Date P1C1	Date P1C2	No. of Hours
1	Isolations	1. Isolation of caffeine from tea leaves.	06.12.2025	06.12.2025	3 per Practical
2		2. Isolation of piperine from black pepper	13.12.2025	13.12.2025	
3		3. Isolation of β -carotene from carrots	20.12.2025	20.12.2025	
4		4. Isolation of lycopene from tomatoes	27.12.2025	27.12.2025	
5		5. Isolation of limonene from lemon peel	03.01.2026	03.01.2026	
6		6. Isolation of eugenol from cloves	10.01.2026	10.01.2026	
7		7. Isolation of Nicotine from Tobacco.	17.01.2026	17.01.2026	
8		8. Isolation of Hesperidin from Orange Peel.	24.01.2026	24.01.2026	
9		9. Isolation of lecithin from Egg yolk.	31.01.2026	31.01.2026	
10		10. Isolation of Lactose and Casein from Milk.	07.02.2026	07.02.2026	
11	Estimations	11. Assay of Riboflavin by UV-Vis Spectrophotometer.	14.02.2026	14.02.2026	
12		12. Estimation of Carbohydrates by UV-Vis spectrophotometer	21.02.2026	21.02.2026	
13		13. Estimation of Amino acids by UV-Vis spectrophotometer.	28.02.2026	28.02.2026	
14		14. Estimation of Proteins by UV-Vis spectrophotometer.	07.03.2026	07.03.2026	
15		15. Determination of Hammett constants and determine its substitution effect.	14.03.2026	14.03.2026	
		i) Benzoic acid ii) p-Nitro Benzoic acid, iii) p-Methoxy Benzoic acid, iv) p-Methyl benzoic acid, v) p-chloro benzoic acid. vi) m-Nitro Benzoic Acid vii) p-Amino Benzoic Acid. viii) p-Hydroxy Benzoic Acid			

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