



Shiv Chhatrapati Shikshan Sanshthas
Rajarshi Shahu Mahavidyalaya, Latur (Autonomous)
Department of Microbiology
Structured Work Plan
Academic Year 2026-27



Name of the Teacher: Mr. Raj. U. Zadke

Details of Classes to be taught

Class	Course Title	Course Type	Course Code	Semester	Credit	Total Teaching Hrs.
B.Sc. I	Methods in Microbiology	DSC	101MIB1102	1	3	45

Summary of Lesson Plan

Unit	Units to be Covered	Expected No. of Lectures	Date	Academic Activities to be Organized	No. of Test/ Assignment
I	Historical developments in microbiology	12	06/07/26 to 03/08/26	Seminar	CAT-I
II	Microscopy	10	04/08/26 to 29/08/26	Poster Presentation	CAT-II
III	Sterilization and disinfection	12	01/09/26 to 28/09/26	Quiz	CAT-III
IV	Cultivation media and Pure culture methods	11	26/09/26 to 19/10/26	PPT Presentation	SEE

Teacher

Dr. U. J. Zadke

Dept. of Microbiology,
Rajarshi Shahu Mahavidyalaya, Latur

Principal
Rajarshi Shahu Mahavidyalaya, Latur



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Details of Classes to be taught

Class	Course Title	Course Type	Course Code	Semester	Credit	Total Teaching Hrs.
B.Sc. I	Fundamentals of Biochemistry	VSC	101MIB1501	1	2	45

Summary of Lesson Plan

Unit	Units and Chapter to be Covered	Expected No. of Lectures	Date	No. of Test/ Assignment
I	Structural Biomolecules (Carbohydrates and Lipids)	6	30/07/2026 to 20/08/2026	Assignment
II	Informational Biomolecules (Nucleic acid)	5	27/08/2026 to 24/09/2026	CAT-I
III	Functional Biomolecules (Proteins)	4	01/10/2026 to 21/10/2026	CAT-II
IV	Practical's	30	30/07/2026 to 15/10/2026	Practical Exam


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Head of Department
(Department of Microbiology)


Principal
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Details of Classes to be taught

Class	Course Title	Course Type	Course Code	Semester	Credit	Total Teaching Hrs
B.Sc. III	Microbial Metabolism	DSE I (a)	301MIB5201	V	3	45

Summary of Lesson Plan

Unit	Chapter to be Covered	Expected No. of Lectures	Date	Academic Activities to be Organized	No. of Test/ Assignment
I	Metabolism and Bioenergetics	12	06/07/2026 To 01/08/2026	Quiz	CAT-I
II	Carbohydrate Metabolism	12	03/08/2026 To 21/08/2026	Assignment	CAT-II
III	Anaerobic Respiration and Fermentation	12	01/09/2026 To 28/09/2026	Poster Presentation	CAT-III
IV	Metabolism of Organic Nitrogenous Compounds, lipids and hydrocarbons	09	29/09/2026 To 19/10/2026	Seminar	SEE

Teacher

Head Microbiology

Principal
Rajarshi Shahu Mahavidyalaya



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Details of Classes to be taught

Class	Course Title	Course Type	Course Code	Semester	Credit	Total Teaching Hrs
M.Sc. I	Recombinant DNA Technology	MEC I (a)	601MIB1201	I	3	45

Summary of Lesson Plan

Unit	Chapter to be Covered	Expected No. of Lectures	Date	Academic Activities to be Organized	No. of Test/ Assignment
I	Enzymes of r DNA Technology	09	06/07/2026 To 22/07/2026	Seminar	CAT-I
II	Cloning and Screening methodologies	12	27/07/2026 To 19/08/2026	Poster Presentation	CAT-II
III	Nucleic acid amplification, Sequencing and Hybridization Techniques	12	24/08/2026 To 23/09/2026	Assignment	CAT-III
IV	Applications of rDNA technology and Legal issues	12	28/09/2026 To 19/10/2026	Quiz	SEE

Teacher

HOD
Dept. of Microbiology
Rajarshi Shahu Mahavidyalaya

Principal
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Details of Classes to be taught

Class	Course Title	Course Type	Course Code	Semester	Credit	Total Teaching Hrs
M.Sc. II	Bioprocess Engineering	MMC	602MIB3103	III	3	45

Summary of Lesson Plan

Unit	Chapter to be Covered	Expected No. of Lectures	Date	Academic Activities to be Organized	No. of Test/ Assignment
I	Introduction to Industrial Bioprocess Engineering and Bioreactors	12	09/07/2026 To 06/08/2026	Quiz	CAT-I
II	Mass Transfer and Sterilization	12	07/08/2026 To 04/09/2026	Seminars	CAT-II
III	Upstream processing	12	05/09/26 To 01/10/2026	Poster presentation	CAT-III
IV	Down Stream Processing	9	03/10/2026 To 17/10/2026	Field Visit	SEE

Teacher

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Dept. of Microbiology

Rajarshi Shahu Mahavidyalaya

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Principal

PRINCIPAL

Rajarshi Shahu Mahavidyalaya

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