



Shiv Chhatrapati Shikshan Sanstha's
Rajarshi Shahu Mahavidyalaya, Latur (Autonomous)
Department of Microbiology

Teaching Plan

Timetable Duration: July 2025 to November 2025


Name of the Teacher: Ms. S. S. Patil

Details of Classes to be taught

Class	Course Title	Course Code	Semester	Credit	Total Teaching Hrs
M.Sc. II	Advanced Molecular Biology	602MIB3102	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	Enzymes of r DNA Technology	12	26/06/2025 To 19/07/2025	Quiz	Class Test
II	Cloning and Screening methodologies	11	24/07/2025 To 23/08/2025	Model Exhibition	CAT-I
III	Nucleic acid amplification, Sequencing and Hybridization Techniques	12	28/08/25 To 25/09/2025	Field Survey	CAT-II
IV	Applications of rDNA technology and Legal issues	09	26/09/2025 To 17/10/2025	Hands-on Training	CAT-III


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Principal



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Department of Microbiology

Teaching Plan

Timetable Duration: July 2025 to November 2025


Name of the Teacher: Ms. S. S. Patil

Details of Classes to be taught

Class	Course Title	Course Code	Semester	Credit	Total Teaching Hrs
B.Sc I	(DSC) Introductory Microbiology	101MIB1101	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	Scope of Microbiology	10	10/07/2025 to 02/08/2025	Quiz	Class Test
II	Historical developments in microbiology	12	07/08/2025 to 30/08/2025	Model Exhibition	CAT-I
III	Types of microorganisms and their characteristics	13	04/09/2025 to 27/09/2025	Field Survey	CAT-II
IV	Taxonomy of Microbes	10	03/10/2025 to 17/10/2025	Hands-on Training	CAT-III


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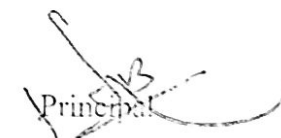
Class	Course Title	Course Code	Semester	Credit	Total Teaching Hrs
B.Sc.III	Molecular Microbiology		V	3	45

Summary of Lesson Plan

Unit	Chapter to be Covered	Expected No. of Lectures	Date	Academic Activities to be Organized	No. of Test/ Assignment
I	DNA: Structure, replication and properties	10	23/06/2025 To 16/07/2025	Quiz	Class Test
II	Genes and Genomes	10	21/07/2025 To 13/08/2025	Model Exhibition	CAT-I
III	Gene Expression	13	18/08/2025 To 16/09/2025	Field Survey	CAT-II
IV	Gene cloning	12	22/09/2025 To 13/10/2025	Hands-on Training	CAT-III


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Timetable Duration: July 2025 to November 2025

Name of the Teacher: Ms. S. S. Patil

Details of Classes to be taught

Class	Course Title	Course Code	Semester	Credit	Total Teaching Hrs
M.Sc. I	Microbial Physiology	601MIB1101	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	Bacterial Chemolithotrophs and Phototrophs	12	16/07/2025 to 06/08/2025	Quiz	Class Test
II	Bacterial Respiration	12	11/08/2025 to 03/09/2025	Model Exhibition	CAT-I
III	Bacterial Permeation	12	08/09/2025 to 01/10/2025	Field Survey	CAT-II
IV	Microbial Stress Responses	09	06/10/2025 to 17/10/2025	Hands-on Training	CAT-III

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Department of Microbiology
Structured Work Plan
Academic Year: 2025-26

Name of the Teacher: Ms. S. S. Patil

Details of Classes to be taught

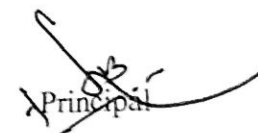
Class	Course Title	Course Type	Course Code	Semester	Credit	Total Teaching Hrs.
B.Sc. I	Basics of Microbiology and Biomolecules	DSC	101MIB2101	II	3	45

Summary of Lesson Plan

Unit	Chapter to be Covered	Expected No. of Lectures	Date	Academic Activities to be Organized	No. of Test/ Assignment
I	Ultra-structure of Bacterial cell	12	1/12/2025 to 24/12/2025	Seminars	CAT-I
II	The Viruses: Distribution and Structure	12	29/12/2025 to 28/1/2026	Model Presentation	CAT-II
III	Biomolecules	11	2/2/2026 to 2/3/2026	Student Presentation	CAT-III
IV	Functional and Informational Biomolecules	10	9/3/2026 to 31/3/2026	Quiz	SEE


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Department of Microbiology

Structured Work Plan

Academic Year: 2025-26

Name of the Teacher: Ms. S. S. Patil

Details of Classes to be taught

Class	Course Title	Course Type	Course Code	Semester	Credit	Total Teaching Hrs.
B.Sc. III	Microbial Genetics	DSC	301MIB6101	VI	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	Mutation	10	1/12/2025 to 22/12/2025	Student Presentation	CAT-I
II	Repair of DNA Damage	10	23/12/2025 to 14/1/2026	Seminar	CAT-II
III	Recombination and Transposable Elements	11	19/1/2026 to 11/2/2026	Model Presentation	CAT-III
IV	Gene transfer in Bacteria	14	16/2/2026 to 25/3/2026	Quiz	SEE

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Department of Microbiology

Structured Work Plan

Academic Year: 2025-26

Name of the Teacher: Ms. S. S. Patil

Details of Classes to be taught

Class	Course Title	Course Type	Course Code	Semester	Credit	Total Teaching Hrs.
B.Sc. III	Bio-analytical Tools	VSC	301MIB6501	VI	2	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	Chromatography Techniques	15	6/12/2025 to 24/1/2026	Quiz	CAT-I/CAT II
II	Laboratory Course	30	6/12/2025 to 28/3/2026	Hands-on Training	Practical Exam


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Department of Microbiology

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Academic Year: 2025-26

Name of the Teacher: Ms. S. S. Patil

Details of Classes to be taught

Class	Course Title	Course Type	Course Code	Semester	Credit	Total Teaching Hrs.
M.Sc. I	Microbial Genetics	MMC	601MIB2102	II	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	Bacterial DNA Replication, Damage and Repair	12	1/12/2025 to 24/12/2025	Seminar	CAT-I
II	Bacterial Transcription and Translation Process	12	29/12/2025 to 28/1/2026	Student presentation	CAT-II
III	Regulation of Gene Expression in Bacteria	12	2/2/2026 to 2/3/2026	Model Presentation	CAT-III
IV	Genetic Recombination and Mapping in Bacteria	09	9/3/2026 to 25/3/2026	Quiz	SEE


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Academic Year: 2025-26

Name of the Teacher: Ms. S. S. Patil

Details of Classes to be taught

Class	Course Title	Course Type	Course Code	Semester	Credit	Total Teaching Hrs.
M.Sc. II	Bioinformatics, Proteomics and Genomics	MME	602MIB4201	IV	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	Basics of Bioinformatics	12	4/12/2025 to 1/1/2026	Seminar	CAT-I
II	Biological Database and Multiple Sequence Alignment	12	2/1/2026 to 24/1/2026	Hands-on Training	CAT-II
III	Microbial Genomics	12	29/2/2026 to 27/2/2026	Student presentation	CAT-III
IV	Microbial Proteomics	09	28/2/2026 to 27/3/2026	Quiz	SEE

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