



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

Department of Biotechnology

Teaching Plan

Timetable Duration : July 2025 to November 2025

Name of the Teacher : Dr. S.S. Kulkarni

1. Details of Classes to be taught

Class	Name of Teacher	Subject	Course Title and Code	Total Lectures
M.Sc. BT II (III Sem.)	Dr. Sachin S. Kulkarni	Biotechnology	Major VII: Genetic Engineering 602BIO3101	45 (3-Credits)

2. Summary of Lesson Plan

Sr. No.	Unit and Chapter to be covered	Expected No. of Lectures	Date	Academic activities to be organized	No of Test/ Assignment with topic and date
1	Unit 1: DNA isolation and Sequencing methods	10	19.06.2025 to 14.07.2025	Group Discussion	CAT-I
2	Unit II: Tools of Genetic Engineering	10	15.07.2025 to 13.08.2025	Guest Lecture	Unit Test II
3	Unit III: Screening and Selection of Recombinants.	12	14.08.2025 to 16.09.2025	Workshop	Surprise Test
4	Unit IV: Expression of gene in higher organism	13	18.09.2025 to 10.10.2025	Quiz	CAT-2


Course Teacher


HoD
Head
Department of Biotechnology
Rajarshi Shahu Mahavidyalaya
(Autonomous) Latur-413 531


Principal
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1. Details of Classes to be taught

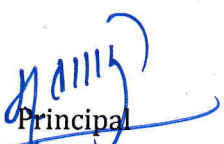
Class	Name of Teacher	Subject	Course Title and Code	Total Lectures
B.Sc. BT. III (V Sem.)	Dr. Sachin S. Kulkarni	Biotechnology	Minor-IV : Computational Biology 301BI05302	15

2. Summary of Lesson Plan

Sr. No.	Unit and Chapter to be covered	Expected No. of Lectures	Date	Academic activities to be organized	No of Test/ Assignment with topic and date
1	Unit 1: Introduction to Bioinformatics and Data Generation	3	23.06.2025 to 16.07.2025	PPT presentation and Group Discussion	1 Assignment
2	Unit II: Biological Databases and Data Repositories	4	18.07.2025 to 13.08.2025	PPT presentation and Group Discussion	1 Assignment
3	Unit III: Sequence Alignments and Comparative Analysis	4	14.08.2025 to 15.09.2025	PPT presentation and Group Discussion	1 Assignment
4	Unit IV: Visualization of Molecular Structures	4	16.09.2025 to 10.10.2025	PPT presentation and Group Discussion	1 Assignment


Course Teacher

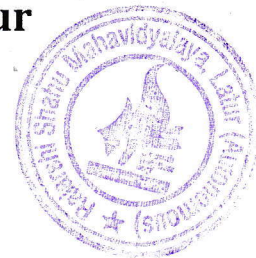

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**Department of Biotechnology
Structured Work Plan for Teaching
Academic Year 2025-26 (Term-II)**



1. Details of Classes to be taught

Sr. No	Class	Name of Teacher	Subject	Paper	Total Lectures
1.	B.Sc. III Sem VI	Dr. S.S. Kulkarni	Biotechnology	Bioinformatics 301BIO6102 (DSC-XII)	45

2. Summary of Lesson

Sr. No	Unit and chapter to be covered	Expected No. of Lectures	Date	Academic activities to be organized	No. of Test/ Assignment with topic and date
1.	Unit I : Sequence Alignment and Similarity Search	8	01.12.2025 to 23.12.2025	Group Discussion	Online MCQ Test
2	Unit II Multiple Sequence Alignment and Phylogenetics	12	24.12.2025 to 21.01.2026	Guest Lecture	Activity based CAT I Home Assignment 01.01.2026
3	Unit III : Protein Structure Visualization and Analysis	12	22.01.2026 to 23.02.2026	Guest Lecture	Surprise Test and CAT II (open Book Test/MCQ) 27.01.2026
4	Unit IV : Genomics and Proteomics: An Introduction	13	24.02.2026 to 31.03.2026	Academic Visit	CAT III (MCQ) 03.03.2026

Date : 01.12.2025

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