



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

**Department of Biotechnology  
Structured Work Plan for Teaching  
Academic Year 2023-24 (Term-I)**

**1.Details of Classes to be taught**

Class	Name of Teacher	Subject	Course Title and Code	Lab Course and Code	Total Lectures
M.Sc. BT. II (III Sem.)	Dr. Manisha A. Dhotre	Biotechnology	Microbial Biotechnology P-MIB-335	Lab Course X P-LAC-339	60 (4-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: Organic Acids, Solvents, and Amino Acids	17	26.06.2023 to 25.07.2023	Quiz	Online MCQ Test
2	Unit II: Vitamins, Antibiotics and Recombinant Products	13	26.07.2023 to 17.08.2023	Coaching for NET/SET Examination	Activity based Unit Test-I 07.08.2023
3	Unit III: Polysaccharides, Biopolymers, Biopesticides, Microbes in environmental Applications	17	21.08.2023 to 20.09.2023	Academic Visit	Surprise Test
4	Unit IV: Microbial Production of Enzymes and Biotransformation of Steroids and Non-Steroids	13	21.09.2023 to 14.10.2023	Soft Skills	Unit Test II (MCQ) 23.09.2023

Date:24 June,2023

Course Teacher

HoD  
Department of Biotechnology  
Rajarshi Shahu Mahavidyalaya, Latur

Principal  
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Academic Year 2023-24 (Term-I)**

**1.Details of Classes to be taught**

Class	Name of Teacher	Subject	Course Title and Code	Lab Course and Code	Total Lectures
B.Sc. BT. II (III Sem.)	Dr. Manisha A. Dhotre	Biotechnology	Metabolism U-MET-401	Lab Course XII U-LAC-405	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	<b>Unit 1:</b> Introduction to Metabolism and Respiration	12	28.06.2023 to 18.07.2023	Quiz	Online MCQ Test
2	<b>Unit II:</b> Photosynthesis	11	19.07.2023 to 08.08.2023	Coaching for Entrance Examination (IIT JAM, JNU etc.)	Activity based Unit Test-I Home Assignment 07.08.2023
3	<b>Unit III:</b> Carbohydrate and Lipid Metabolism	12	09.08.2023 to 05.09.2023	Workshop	Surprise Test
4	<b>Unit IV:</b> Amino acid and Nucleotide Metabolism	10	06.09.2023 to 14.10.2023	Guest Lecture	Unit Test II (MCQ) 23.09.2023

Date:16 June,2023

Course Teacher

Head  
Department of Biotechnology

Principal





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**Department of Biotechnology**  
**Structured Work Plan for Teaching**  
**Academic Year 2023-24 (Term-II)**

**1.Details of Classes to be taught**

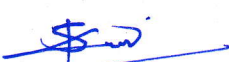
Class	Name of Teacher	Subject	Course Title and Code	Lab Course and Code	Total Lectures
M.Sc. BT. II (IV Sem.)	Dr. Manisha A. Dhotre	Biotechnology	Food and Nano Biotechnology P-FNB-434	Lab Course XIV P-LAC-437	60 (4-Credits)


**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-I: Biotechnology for Food Ingredients and Aspects of Food Production	16	06.12.2023 to 02.01.2024	Coaching for NET/SET Examination	Online MCQ Test
2	Unit II: Food Applications and Functional Foods	14	08.01.2024 to 30.01.2024	Visit	Activity based Unit Test-I 19.01.2024
3	Unit III: Food Safety, Traditional Fermentation and Novel Bioprocessing	16	31.01.2024 to 27.02.2024	Career Guidance	Surprise Test
4	Unit IV: Nano Biotechnology	14	28.02.2024 to 29.03.2024		Unit Test-II (M.C.Q) 06.03.2024

Date:05 December,2023

  
Course Teacher

  
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Principal  
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**Department of Biotechnology**  
**Structured Work Plan for Teaching**  
**Academic Year 2023-24 (Term-II)**


**1.Details of Classes to be taught**


Class	Name of Teacher	Subject	Course Title and Code	Lab Course and Code	Total Lectures
B.Sc. BT. II (IV Sem.)	Dr. Manisha A. Dhotre	Biotechnology	Enzymology U-ENZ-498	Lab Course XV U-LAC-502	45 (3-Credits)

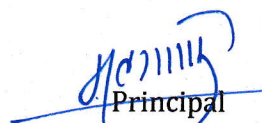
**2.Summary of Lesson Plan**

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 I: Enzymes & Enzyme Catalysis	14	06.12.2023 to 29.12.2023	Coaching for Entrance Examination (IIT Jam/JNU etc.)	Online MCQ Test
2	Unit II. Applications And Characterization of Enzymes	08	01.01.2024 to 17.01.2024	Visit	Activity based Unit Test-I 19.01.2024
3	Unit III: Enzyme Kinetics, Enzyme Inhibition and Enzyme Assay	12	19.01.2024 to 16.02.2024	Guidance to crack Competitive Examination	Surprise Test
4	Unit IV: Enzyme Regulation, Enzyme Immobilization and Biosensors	11	20.02.2024 to 29.03.2024	Guest Lecture	Unit Test-II (M.C.Q) 06.03.2024

Date:02 December,2023

  
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