



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

Department of Biotechnology
Structured Work Plan for Teaching
Academic Year 2022-23 (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	Unit 1: Metabolism, Respiration	12	20.06.2022 to 12.07.2022	Hands on Training	Online MCQ Test
2	Unit II: Photosynthesis, Light and Dark Reactions	11	13.07.2022 to 11.08.2022	Coaching for Entrance Examination (IIT JAM, JNU etc.)	Activity based Unit Test-I Home Assignment 01.08.2022
3	Unit III: Photorespiration, Carbohydrate Metabolism, Lipid Metabolism	12	12.08.2022 to 13.09.2022	Workshop	Surprise Test
4	Unit IV: Amino acid Metabolism and Nucleotide Metabolism	10	14.09.2022 to 15.10.2022	Soft Skills	Unit Test II (MCQ) 19.09.2022

Date:16 June,2022


Course Teacher


HoD
Head
Department of Biotechnology
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Principal
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Academic Year 2022-23 (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, Organic Feedstocks, and Amino Acids	17	20.06.2022 to 19.07.2022		Online MCQ Test
2	Unit II: Vitamins, Antibiotics and Recombinant Products	13	20.07.2022 to 16.08.2022	Coaching for NET/SET Examination	Activity based Unit Test-I 01.08.2022
3	Unit III: Polysaccharides, Biopolymers, Biopesticides, Microbes in environmental Applications	17	17.09.2022 to 15.09.2022	Academic Visit	Surprise Test
4	Unit IV: Enzymes Biotransformation of Steroids and Non-Steroids	13	16.09.2022 to 15.10.2022	Soft Skills	Unit Test II (MCQ) 19.09.2022

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Structured Work Plan for Teaching
Academic Year 2022-23 (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 Aspects of Food Production Ingredients.	16	08.12.2022 to 05.01.2023	Coaching for NET/SET Examination	Surprise Test
2	Unit II: Food Microbiology, Traditional Fermented Food Products and Functional Foods	13	06.01.2023 to 31.01.2023	Career Guidance	Activity based Unit Test-I 20.01.2023
3	Unit III: Food Safety and Novel Bioprocessing and Regulatory Issues	17	11.02.2023 to 02.03.2023	Visit	Online MCQ Test
4	Unit IV: Nanotechnology	14	17.03.2023 to 29.03.2023	Guest Lecture	Unit Test-II (M.C.Q) 06.03.2023

Date:07 December,2022


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Academic Year 2022-23 (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	12	08.12.2022 to 30.12.2022	Coaching for Entrance Examination (IIT Jam/JNU etc.)	Online MCQ Test
2	Unit II. Application And Characterization of Enzymes	10	31.12.2022 to 21.01.2023	Visit	Activity based Unit Test-I 20.01.2023
3	Unit III: Enzyme Kinetics, Enzyme Inhibition and Enzyme Assay	12	23.01.2023 to 15.02.2023	Guidance to crack Competitive Examination	Surprise Test
4	Unit IV: Enzyme Regulation, Enzyme Immobilization and Biosensors	11	16.02.2023 to 29.03.2023	Guest Lecture	Unit Test-II (M.C.Q) 06.03.2023

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