Shiv Chhatrapati Shikshan Sanstha's
Rajarshi Shahu Mahavidyalaya, Latur
(Autonomous)
Department of Biotechnology
Structured Work Plan for Teaching
Academic Year 2021-22 (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	07.07.2021 to 04.08.2021	Guest Lecture	Online MCQ Test
2	Unit II: Photosynthesis, Light and Dark Reactions	11	04.08.2021 to 27.08.2021	Lecture on Nobel Laureate	Activity based Unit Test-I Home Assignment
3	Unit III: Photorespiration, Carbohydrate Metabolism, Lipid Metabolism	12	28.08.2021 to 24.09.2021		Online MCQ Test
4	Unit IV: Amino acid Metabolism and Nucleotide Metabolism	10	25.09.2021 to 26.10.2021	Guidance to Crack Competitive Examination	Unit Test II (MCQ) 27.10.2021

Date:05July,2021

Course Teacher

HoD
Head
Department of Biotechonlogy
Rajarshi Shahu Mahavidyala
(Autonomous) Latur-413 5

Principal
PRINCIPAL
Rajarshi Shahu Mahavidyalaya, Latur
(Autonomous)

Shiv Chhatrapati Shikshan Sanstha's
Rajarshi Shahu Mahavidyalaya, Latur
(Autonomous)
Department of Biotechnology
Structured Work Plan for Teaching
Academic Year 2021-22 (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	05.07.2021 to 04.08.2021	Lecture on Nobel Laureate	Online MCQ Test
2	Unit II: Vitamins, Antibiotics and Recombinant Products	13	05.08.2021 to 31.08.2021	Coaching for NET/SET Examination	Activity based Unit Test-I Home Assignment
3	Unit III: Polysaccharides, Biopolymers, Biopesticides, Microbes in environmental Applications	17	01.09.2021 to 29.09.2021	Guidance to Crack Competitive Examination	Online MCQ Test
4	Unit IV: Enzymes Biotransformation of Steroids and Non-Steroids	13	30.09.2021 to 26.10.2021	Workshop on Research Methodology	Unit Test II (MCQ)

Date:05July,2021

Course Teacher

Shiv Chhatrapati Shikshan Sanstha's
Rajarshi Shahu Mahavidyalaya, Latur
(Autonomous)
Department of Biotechnology
Structured Work Plan for Teaching
Academic Year 2021-22 (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. I (I Sem.)	Dr. Manisha A. Dhotre	Biotechnology	Biochemistry P-BIO-135	Lab Course II P-LAC-139	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: Bioenergetics Structure of atom, Henderson-Hasselbach equation, Stabilizing interactions	13	27.09.2021 to 02.10.2021	Guidance to Crack Competitive Examination	Online MCQ Test
2	Unit II: Carbohydrates and Carbohydrate Metabolism	16	03.10.2021 to 02.11.2021		Activity based Unit Test-I Home Assignment
3	Unit III: Lipids and Lipids Metabolism. Nucleic acids and Its Metabolism	16	03.11.2021 to 09.12.2021		Online MCQ Test
4	Unit IV: Amino Acids Proteins	15	10.12.2021 to 31.12.2021		Unit Test II

Date:24 September,2021

Course Teacher

HoD
Head
Department of Biotechonlog
Rajarshi Shahu Mahavidyalay.
(Autonomous) Latur-413 531

Principal
PRINCIPAL
Rajarshi Shahu Mahavidyalaya, Latur
(Autonomous)

Shiv Chhatrapati Shikshan Sanstha's
Rajarshi Shahu Mahavidyalaya, Latur
(Autonomous)
Department of Biotechnology
Structured Work Plan for Teaching
Academic Year 2021-22 (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	20.12.2021 to 17.01.2022		Online MCQ Test
2	Unit II: Food Microbiology, Traditional Fermented Food Products and Functional Foods	13	18.01.2022 to 10.02.2022	Guidance to Crack Competitive Examination	Activity based Unit Test-I 01.02.2022
3	Unit III: Food Safety and Novel Bioprocessing and Regulatory Issues	17	11.02.2022 to 16.03.2022	Career Guidance	Online MCQ Test
4	Unit IV: Nanotechnology	14	17.03.2022 to 13.04.2022	Career Guidance	Unit Test-II 03.03.2022

Date:17 December,2021

Course Teacher

HoD

Principal

Shiv Chhatrapati Shikshan Sanstha's
Rajarshi Shahu Mahavidyalaya, Latur
(Autonomous)
Department of Biotechnology
Structured Work Plan for Teaching
Academic Year 2021-22 (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	18.12.2021 to 11.01.2022		Online MCQ Test
2	Unit II. Application And Characterization of Enzymes	10	12.01.2022 to 05.02.2022		Activity based Unit Test-I 01.02.2022
3	Unit III: Enzyme Kinetics, Enzyme Inhibition and Enzyme Assay	12	07.02.2022 to 05.03.2022	Career Guidance	Online MCQ Test
4	Unit IV: Enzyme Regulation, Enzyme Immobilization and Biosensors	11	07.03.2022 to 13.04.2022	Career Guidance	Unit Test-II 03.03.2022

Date:17 December,2021

Course Teacher

HoD

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

Principal
PRINCIPAL
Rajarshi Shahu Mahavidyalaya, Latur
(Autonomous)