



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

Department of Biotechnology

Structured Work Plan for Teaching
Academic Year 2022-2023 (Term- I)

1. Details of Classes to be taught

Sr. No.	Class	Name of Asist. Prof.	Subject	Paper	Total Lectures
1	B. Sc. BT III Sem. V	Ms. Ashwini M. Devarshe	Biotechnology	Microbial Technology	45 (3Credits)

1) Summary of Lesson Plan

Sr. No.	Unit and Chapter to be covered	Expected no. of Lectures	Date	Academic activities to be organizer	No. of Test / Assignment
1	Unit I: Microbial Growth	12	08/06/2022 To 07/07/2022	Guest Lecture	Unit Test I
2	Unit II: Down Stream Processing	15	07/07/2022 To 11/8/2022		
3	Unit III: Fermentation Process	12	12/08/2022 To 12/09/2022		
4	Unit IV: Quality Control, Process Economics & GLP	11	13/09/2022 To 15/10/2022	Visit to Fermentation Industry	Unit Test II

A. V. Vasth

Course Teacher

S. S.
HoD

Head

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N. M. B.
Principal

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1. Details of Classes to be taught

Sr. No.	Class	Name of Asist. Prof.	Subject	Paper	Total Lectures
1	M. Sc. BT I Year Sem. I	Ms. Ashwini M. Devarshe	Biotechnology	Microbial Physiology	60 (4Credits)

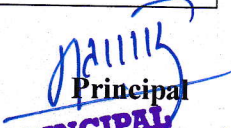
1) Summary of Lesson Plan

Sr. No.	Unit and Chapter to be covered	Expected no. of Lectures	Date	Academic activities to be organizer	No. of Test / Assignment
1	Unit I: Beginning of Microbiology, Development of pure culture, Knowing microbial world Bacteria, Archaea, Eukarya, Viruses	16	22/ 08/2022 To 22/09/2022	Guest Lecture	Unit Test I
2	Unit II: Pure culture techniques, Microbial Nutrition	08	23/09/2022 To 19/10/2022		Unit Test II
3	Unit III: Microbial Growth, Factors affecting growth of microorganisms, culture collection and maintenance of culture	07	20/10/2022 To 21/11/2022		
4	Unit IV: Overview of Basic Metabolism Microbial Nutrition, Calvin Cycle, Transport Mechanism	15	22/11/2022 To 15/12/2022		


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Structured Work Plan for Teaching
Academic Year 2022-2023 (Term- II)

1. Details of Classes to be taught

Sr. No.	Class	Name of Asist. Prof.	Subject	Paper	Total Lectures
1	B. Sc. BT II Sem. IV	Ms. Ashwini M. Devarshe	Biotechnology	Process Biotechnology	45 (3Credits)

1) Summary of Lesson Plan

Sr. No.	Unit and Chapter to be covered	Expected no. of Lectures	Date	Academic activities to be organizer	No. of Test / Assignment
1	Unit I: Introduction to concept of Bioprocess engineering, Design of Fermenter	12	08/12/2022 To 31/12/2022	Guest Lecture	Unit Test I
2	Unit II: Air & Media sterilization	11	04/01/2023 To 26/01/2023	Visit to Fermentation Industry	Unit Test II
3	Unit III: Types of Bioprocesses, Screening, Strain Improvement	11	27/01/2023 To 25/02/2023		
4	Unit IV: Measurement & Control of Bioprocesses Parameters	11	26/02/2023 To 31/03/2023		

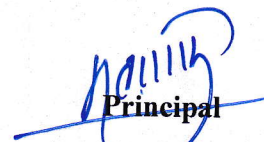


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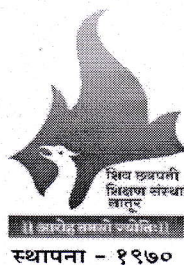

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Structured Work Plan for Teaching
 Academic Year 2022-2023 (Term- II)


1. Details of Classes to be taught

Sr. No.	Class	Name of Asist. Prof.	Subject	Paper	Total Lectures
1	M. Sc. BT I Year (Sem. II)	Ms. Ashwini M. Devarshe	Biotechnology	Bioprocess Engineering	60 (4Credits)

2) Summary of Lesson Plan

Sr. No.	Unit and Chapter to be covered	Expected no. of Lectures	Date	Academic activities to be organizer	No. of Test / Assignment
1	Unit I: Basic Chemical Engineering calculations; Fluid statics:	14	01/01/2023 To 20/01/2023	Guest lecture on Carrer Guidance	Unit Test I
2	Unit II: Fermenters, Types of Fermenters, Air & Media sterilization	16	23/01/2023 To 15/02/2023	Visit to Fermentation Industry	Unit Test II
3	Unit III: Media for large-scale processes & their optimization	13	15/02/2023 To 07/03/2023		
4	Unit IV: Measurement & Control of Bioprocesses Parameters, Downstream processing	14	08/03/2023 To 31/03/2023		


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