

Rajarshi Shahu Mahavidyalaya(Autonomous), Latur

Department of Microbiology

Teaching Plan :2021-22

Subject: Microbiology

Class : B.Sc. II Sem:III

Course title: Fundamentals of Immunology Paper :IV , Course Code: U-MIB-360

Name of the Faculty : Dr. K.G.Maske

Unit	Unit and Chapter to be covered	No. of Lectures	Date	Academic activities to be organized	Test/Assignment
I	Microbial interactions with humans	12	8 /07/2021 To 29/07/2021	Seminar	Assignments
II	Antigen and Antibody	12	02/08/2021 to to 30/08/ 2021	Seminar	Class test
III	Immunity and Immunization	11	11/09/2021 30/09/2021	Seminar	Class test
IV	Antigen antibody reactions	12	01/10/2021 To 29/10/2021	Seminar	Class test

Class : B.Sc. III

Semester: V

Course : Biocatalyst and microbial metabolism

Unit	Unit and Chapter to be covered	No. of Lectures	Date	Academic activities to be organized	Test/Assignment
I	Enzymes, enzyme kinetics and immobilization	12	05/07/2021 To 28/07/2021	Seminar	Assignments
II	Enzyme inhibition and Regulation	11	02/08/2021 to to 25/08/ 2021	Hands on Training program	Class test
III	Chemoheterotropic Microbial Metabolism: Aerobic respiration	12	30/08/2021 22/09/2021	Seminar	Class test
IV	Chemoheterotropic Microbial Metabolism Anaerobic respiration and Fermentations	10	25/09/2021 To 29/10/2021	Seminar	Class test


Teacher

Dr. K.G. Maske


Dept. Head, microbiology
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Teaching Plan: Semester: IV

Class : B.Sc. II

Course : Medical Microbiology Course Code :U-MIB :460

Unit	Unit and Chapter to be covered	No. of Lectures	Date	Academic activities to be organized	Test/Assignment
I	Infection and disease process	08	18/12/2021 to 2/01/2022	Seminar	Assignments
II	Study of bacterial infections	15	03/01/2022 to 02/02/ 2022	Training program	Class test
III	Study of following respiratory diseases Malaria, Dengue and mucormycosis	12	06/02/2022 to 03/03/2022	Seminar	Class test
IV	Study of viral diseases	10	04/03/2022 To 15/04/2022	Seminar	Class test

Class: B.Sc. III

Semester: VI

Course : Industrial microbiology

Course Code :U-MIB-666

Unit	Unit and Chapter to be covered	No. of Lectures	Date	Academic activities to be organized	Test/Assignment
I	Definition and Scope of Industrial Microbiology	09	16/12/2021 to 6/01/2022	Seminar	Assignments
II	Methods in Industrial Microbiology	12	07/01/2022 to 30/01/2022	Training program	Class test
III	Down stream processing	12	01/02/2022 to 02/03/2022	Seminar	Class test
IV	Typical Bioprocess production	12	26-04-2022	Seminar	Class test



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Program: M.Sc.
Subject :Microbiology
Academic year: 2021-22

Course: Microbial physiology
Course Teacher: Dr.K.G.Maske

Course code:P-MIP-180

Unit	Unit and Chapter to be covered	No. of Lectures	Date	Academic activities to be organized	Test/Assignment
I	Bacterial Chemolithotrops and Phototrophs	12	028/092021 to 25/10/2021	Seminar	Assignment of 40 marks
II	Bacterial Respiration	12	26/10/2021 to 18/11/2021	Seminar	Class test
III	Bacterial Permeation	11	19/11/2021 to 9/12/2021	Seminar	Class test
IV	Bacterial Sporulation	10	10/12/2021 to 31/12/2021	Seminar	Class test


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Department of Microbiology

Teaching Plan 2021-22

Semester: IV & VI

Name of the Faculty : Dr. K. G. Maske

1. Details of Classes to be taught

Sr. No.	Class	Theory Paper	Practical
1	B.Sc. II	Paper VIII, Medical microbiology	Lab Course: IX and X
2	B.Sc. III	Paper VIII, Industrial microbiology	Batch T1
3	B.Sc. III		Batch T2

Course: Medical Microbiology

Class : B.Sc. II

Unit	Unit and Chapter to be covered	No. of Lectures	Date	Academic activities to be organized	No. of Test/Assignment with topic and date
I	1.1 Types of infections 1.2 Sources of infection 1.3 Methods of transmission of infections 1.4 Epidemiology 1.5 Disease process	08	16/12/21 to 01/01/2022		Assignments
II	Study of bacterial infections 1. Typhoid. 2. Cholera 3. Tuberculosis	15 07 06	03/01/2022 to 25/01/ 2022	Microbial techniques competition	Class test

		02			
III	Study of following 1. Mucormycosis 2. Malaria 3. Dengue	12 04 04 04	27/01/2022 to 22/02/22	Seminar	Class test, Visit to Pathology lab
IV	Study of following diseases 1. Hepatitis 2. Viral Pneumonia 3. Covid -19	10 06 02 02	26/02/2022 to 15/03/2022	Hands on training on clinical methods	03 /03/2022 to 9/03/2022 to Unit test

Teaching Plan 2021-22

Class : B.Sc. III

Semester : VI

Course Title : Industrial Microbiology


Course code : U-MIB-666

Unit	Unit and Chapter to be covered	No. of Lectures	Date	Academic activities to be organized	No. of Test/Assignment with topic and date
I	Definition and Scope of Industrial Microbiology	09	20/12/2022 to 05/01/2022	Guest Lecture	Assignments
II	Methods in Industrial Microbiology	12	06/01/2022 to 01/02/2022	Hands on training on fermentation technology	Class test
III	Down stream processing	12	02/02/2022 to 28/02/2022	Seminar	Class test
IV	Typical Bioprocess production	10	02/03/2022 to 15/04/2022	Industrial visit seminar	Unit test



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