



“Education for Knowledge, Science and Culture”  
-Shikshanmaharshi Dr. Bapuji Salunkhe  
Shri Swami Vivekanand Shikshan Sanstha's  
**VIVEKANAND COLLEGE, KOLHAPUR (AUTONOMOUS)**



**DEPARTMENT OF MICROBIOLOGY**

**Curricular Relevance – Course Outcomes with Relevance to Local, Regional, Global needs**

**(2018-19 to 2023-24)**

Sr. No.	Name of the Course	Course Code	Year of Introduction	Cos with relevance to local/regional needs	Cos with relevance to national needs	Cos with relevance to global needs
<b>B.Sc. Microbiology (Newly Introduced between 2018-19 and 2022-23)</b>						
1	Introduction to Microbiology and Microbial diversity	DSC-1010A	2018-19	-	-	-
2	Bacteriology & applied microbiology	DSC-1010B	2018-19	CO3: Analyze the milk microbiologically	-	-
3	Microbial Physiology , Metabolism and Applied Microbiology	DSC- 1010C	2019-20	-	CO 2: Apply their knowledge to control microbial load present in the air at various industrial work places as well as for preservation of food.	CO 1: Know the applications and limitations of different bioinformatics and statistical methods in biology.
4	Microbial Genetics, Molecular Biology , Basics in Medical Microbiology &	DSC- 1010D	2019-20	-	CO 2: Explain various terms used in medical microbiology, different modes of transmission,	CO 1: Understand basic concepts of gene, mutation and recombination.



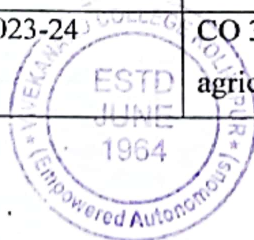
	Immunology				prevention and control of microbial diseases.	
5	Immunology and Medical Microbiology	DSC-1019E1	2020-21	CO 3: Understand various viral, bacterial & fungal diseases , their causative agent , mode of infection , epidemiology lab diagnosis , treatment and prophylaxis.	CO 3: Understand various viral, bacterial & fungal diseases , their causative agent , mode of infection , epidemiology lab diagnosis , treatment and prophylaxis.	CO 3: Understand various viral, bacterial & fungal diseases , their causative agent , mode of infection , epidemiology lab diagnosis , treatment and prophylaxis.
6	Industrial Microbiology and Microbial Biochemistry	DSC-1019E2	2020-21	-	-	-
7	Management of Human Microbial Diseases	SEC-SE	2020-21	CO 1: Apply their knowledge to prevent diseases. CO 2: Understand the cause and transmission of diseases	CO 1: Apply their knowledge to prevent diseases. CO 2: Understand the cause and transmission of diseases	CO 1: Apply their knowledge to prevent diseases. CO 2: Understand the cause and transmission of diseases
8	Virology and Microbial Genetics	DSE – 1019 F 1	2020-21	-	-	-
9	Agricultural and Environmental Microbiology	DSE – 1019 F2	2020-21	CO 4: Know the Microorganisms responsible for water pollution and their transmission.	-	CO 3: Understand the basic principle of environment microbiology and be able to apply these principles to understanding and solving environmental



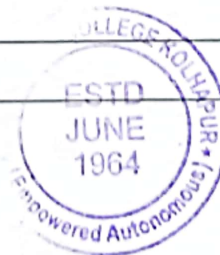
						problems – waste water treatment and bioremediation .
10						
11	Food fermentation techniques	SEC-SE	2022-23	CO 3: Apply their knowledge in designing techniques for food processing	-	-
12	Introduction to microbiology and microbial diversity	DSC 1010 A	2021-22	-	-	-
13	Basic techniques in Microbiology	DSC 1010 B	2021-22	CO 3: Analyze the milk microbiologically.	-	-
14	Microbial Physiology and Metabolism	DSC 1010 C1	2022-23	-	-	-
15	Industrial and Applied Microbiology	DSC- 1010C2	2022-23	-	-	CO 2: Know the applications and limitations of different bioinformatics and statistical methods in biology.
16	Microbiological analysis of air and water	SEC-SE	2022-23	CO 2: Apply knowledge to control air and water borne pathogens.	CO 2: Apply knowledge to control air and water borne pathogens.	CO 2: Apply knowledge to control air and water borne pathogens.
17	Microbial Genetics and Molecular Biology	DSC 1010 D1	2022-23	-	-	-
18	Basics in Medical Microbiology and Immunology	DSC 1010 D2	2022-23	CO 3: Explain various terms used in medical microbiology, different modes of transmission, prevention and control of	CO 3: Explain various terms used in medical microbiology, different modes of transmission, prevention and control of	CO 3: Explain various terms used in medical microbiology, different modes of transmission, prevention and control of



				microbial diseases.	microbial diseases.	microbial diseases.
19	Microbial diagnosis in health clinics	SEC-SE	2022-23	-	-	-
20	Immunology	DSE: 1010E1	2022-23	CO 1: Correlate disease symptoms with causative agent, isolate and identify pathogens.	CO 1: Correlate disease symptoms with causative agent, isolate and identify pathogens.	CO 1: Correlate disease symptoms with causative agent, isolate and identify pathogens.
21	Industrial Microbiology	DSE-1010E2	2022-23	CO 3: Understand the cause of spoilage of food and methods for preservation of food.	-	-
22	Microbial Biochemistry	DSE-1010E2	2022-23	-	-	-
23	Management of Human Microbial Diseases	SEC-SE	2022-23	CO 1: Apply their knowledge to prevent diseases. CO 2: Understand the cause and transmission of diseases	CO 1: Apply their knowledge to prevent diseases. CO 2: Understand the cause and transmission of diseases	CO 1: Apply their knowledge to prevent diseases. CO 2: Understand the cause and transmission of diseases
24	Virology	DSE-1010F1	2023-24	-	-	-
25	Microbial Genetics	DSE-1010F1	2023-24	-	-	-
26	Agricultural Microbiology	DSE - 1010 F 2	2023-24	CO 3: Perform isolation of agriculturally important	CO 3: Perform isolation of	CO 3: Perform isolation of agriculturally important



				microorganisms and formulate biofertilizers.	agriculturally important microorganisms and formulate biofertilizers.	microorganisms and formulate biofertilizers.
27	Environmental Microbiology	DSE - 1010 F 2	2023-24	CO 1: Know the Microorganisms responsible for water pollution and their transmission	CO 1: Know the Microorganisms responsible for water pollution and their transmission	CO 1: Know the Microorganisms responsible for water pollution and their transmission
28	Food fermentation techniques	SEC-SE	2023-24	-	-	-
29	Introduction to Microbiology	DSC03MIC11	2023-24	-	-	-
30	Bacteriology	DSC03MIC12	2023-24	-	-	-
31	Introduction to Microbiology	MIN03MIC11	2023-24	-	-	-
32	Bacteriology	MIN03MIC12	2023-24	-	-	-
33	General Microbiology	OEC03MIC11	2023-24	-	-	-
34	Techniques in Microbiology	OEC03MIC12	2023-24	-	-	-
35	Basic Biochemistry	DSC03MIC21		-	-	-



36	Microbial nutrition and techniques	DSC03MIC22		-	-	-
37	Basic Biochemistry1	MIN03MIC21		-	-	-
38	Microbial nutrition and techniques	MIN03MIC22		-	-	-
39	Microbial nutrition and control	OEC03MIC21		-	-	
40	Water and air Microbiology	OEC03MIC22		CO2 : Understand the various water purification processes CO3 : Explain the role of organism in spoilage of milk.	-	-



*Gita*  
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