



“Education for Knowledge, Science and Culture”  
-Shikshanmaharshi Dr. Bapuji Salunkhe

Shri Swami Vivekanand Shikshan Sanstha's

**Vivekanand College, Kolhapur (Autonomous)**



[स्वायत्त] कोल्हापूर

**Department of Microbiology**  
**Content with Cross-cutting Issues**

Sr. No.	Name of the Course	Course Code	Year of Introduction	Professional Ethics	Gender	Human Values	Environment and Sustainability	Sustainable Development Goals
1	Introduction to Microbiology and Microbial diversity	DSC-1010A	2018-19	-	-	-	-	-
2	Bacteriology & applied microbiology	DSC-1010B	2018-19	-	-	-	-	Analyze the milk microbiologically
3	Microbial Physiology, Metabolism and Applied Microbiology	DSC-1010C	2019-20	-	-	-	-	1. control microbial load present in the air at various industrial work places as well as for preservation of food. 2. Know the applications



								and limitations of different bioinformatics and statistical methods in biology
4	Microbial Genetics, Molecular Biology , Basics in Medical Microbiology & Immunology	DSC-1010D	2019-20	-	-	-	-	1. Medical microbiology, different modes of transmission, prevention and control of microbial diseases.
5	Immunology and Medical Microbiology	DSC-1019E1	2020-21	-	-	-	-	1. 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	-	-	-	-	1. Design the diagnostic test and therapeutic agents.
8	Virology and Microbial Genetics	DSE – 1019 F 1	2020-21	-	-	-	-	-
9	Agricultural and Environmental Microbiology	DSE – 1019 F2	2020-21	-	-	-	1. Microorganisms responsible for water pollution and their transmission 2. Waste water treatment	-

								and bioremediation .	
10	Food fermentation techniques	SEC-SE	2022-23	-	-	-	-		1.Designing techniques for food processing
11	Introduction to microbiology and microbial diversity	DSC 1010 A	2021-22	-	-	-	-		
12	Basic techniques in Microbiology	DSC 1010 B	2021-22	-	-	-	-		1. Analyze the milk microbiologically.
13	Microbial Physiology and Metabolism	DSC 1010 C1	2022-23	-	-	-	-		1. Principle and working of various instruments used in laboratory.
14	Industrial and Applied Microbiology	DSC-1010C2	2022-23	-	-	-	-		Industrial production of various products using microorganisms
15	Microbiological analysis of air and water	SEC-SE	2022-23	-	-	-	-		-
16	Microbial Genetics and Molecular Biology	DSC 1010 D1	2022-23	-	-	-	-		-
17	Basics in Medical Microbiology and Immunology	DSC 1010 D2	2022-23	-	-	-	-		-
19	Immunology	DSE: 1010E1	2022-23	-	-	-	-		-
20	Medical Microbiology	DSE:1010E1	2022-23	-	-	-	-		Pathogenicity of organisms associated with human infections
21	Industrial	DSE-	2022-23	-	-	-	-		-



	Microbiology	1010E2						
22	Microbial Biochemistry	DSE-1010E2	2022-23	-	-	-	-	Extraction and purification of enzymes from microorganisms
23	Management of Human Microbial Diseases	SEC-SE	2022-23	-	-	-	-	Design the diagnostic test and therapeutic agents.
24	Virology	DSE-1010F1	2023-24	-	-	-	-	-
25	Microbial Genetics	DSE-1010F1	2023-24	-	-	-	-	PCR and DNA sequencing.
26	Agricultural Microbiology	DSE – 1010 F 2	2023-24	-	-	-	various plant microbe interactions especially rhizosphere and their applications especially the biofertilizers and their production techniques	-
27	Environmental Microbiology	DSE – 1010 F 2	2023-24	-	-	-	Microorganisms responsible for water pollution and their transmission	-
28	Food fermentation techniques	SEC-SE	2023-24	-	-	-	-	Small scale food industry
29	Introduction to Microbiology	DSC03 MIC11	2023-24	-	-	-	-	-
30	Bacteriology	DSC03 MIC12	2023-24	-	-	-	Identification of unknown microorganisms	Electron Microscope
31	Introduction to Microbiology	MIN03 MIC11	2023-24	-	-	-	-	-
32	Bacteriology	MIN03 MIC12	2023-24	-	-	-	Identification of unknown microorganisms	Electron Microscope
33	General	OEC03	2023-24	-	-	-	-	-

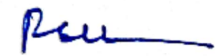


	Microbiology	MIC11						
34	Techniques in Microbiology	OEC03 MIC12	2023-24	-	-	-	Identification of Microorganisms	Electron microscope
35	Basic Biochemistry	DSC03 MIC21		-	-	-	-	Organization of nucleic acid
36	Microbial nutrition and techniques	DSC03 MIC22		-	-	-	-	Culture collection centres
37	Basic Biochemistry1	MIN03 MIC21		-	-	-	-	Organization of nucleic acid
38	Microbial nutrition and techniques	MIN03 MIC22		-	-	-	-	Culture collection centres
39	Microbial nutrition and control	OEC03 MIC21		-	-	-	-	-
40	Water and air Microbiology	OEC03 MIC22		-	-	-	Microbiological analysis of water	Microbiological analysis of water

  
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