

“Dissemination of Education for Knowledge, Science and Culture”

–Shikshanmaharshi Dr. Bapuji Salunkhe

Shri Swami Vivekanand Shikshan Sanstha's

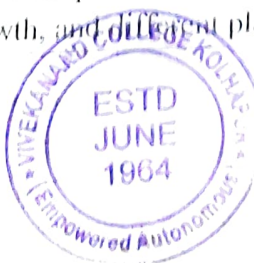
Vivekanand College, Kolhapur (Empowered Autonomous)

Department of Microbiology (PG)

Academic Year 2024-25

M. Sc. I Course outcomes

	M. Sc. I Semester I
Paper I DSC20MIC11	GENETICS AND MOLECULAR BIOLOGY
	On completion of the course, the students will be able to: CO 1 Know the mechanism of DNA replication in prokaryotes and eukaryotes CO 2 Understand the concept of unique and repetitive DNA sequences CO 3 Explain the modes of cell division with respect to mitosis and meiosis CO 4 Know basic and advanced techniques used in molecular genetics
Paper II DSC20MIC12	IMMUNOLOGY
	On completion of the course, the students will be able to: CO 1 Explain functioning of immune system CO 2 Describe regulatory mechanisms of immune system CO 3 Describe Cancer immunology and treatment and prevention of cancer CO 4 Narrate various serodiagnostic techniques of diseases.
Paper III E1 DSE20MIC11	TAXONOMY AND MICROBIAL DIVERSITY
	On completion of the course, the students will be able to: CO 1 Explain the diversity of microorganisms CO 2 Describe the concept of classification of microorganisms CO 3 Describe various characteristics of different types of microorganisms CO 4 Classify newly discovered organism
Paper III E2 DSE20MIC12	VIROLOGY
	On completion of the course, the students will be able to: CO 1 Illustrate life cycles of plant, animal and bacterial viruses CO 2 Describe plant virus transmission, effects of viruses on plant growth, and different plant diseases



	<p>humans</p> <p>CO 2 Understand mechanisms of disease development</p> <p>CO 3 Explain medical applications of microbial metabolites</p> <p>CO 4 Narrate immunological disorders.</p>
Paper VII E2 DSE20MIC22	MICROBIAL ECOLOGY
	<p>On completion of the course, the students will be able to:</p> <p>CO 1 Understand concept of microbial ecosystem</p> <p>CO 2 Describe the effect of environmental factors on the microbial life</p> <p>CO 3 Explain interactions of microbes with other microbes and other living systems like plants and animals.</p> <p>CO 4 Know control of pest with biological way</p>
Paper VII E3 DSE20MIC23	MICROBIAL BIOTECHNOLOGY
	<p>On completion of the course, the students will be able to:</p> <p>CO 1 Describe scope of biotechnology for betterment of human life</p> <p>CO 2 Explain production of various microbial products through gene engineering</p> <p>CO 3 Narrate various applications of microbial biotechnology in agriculture</p> <p>CO 4 Know various applications of microbial biotechnology in food, and pharmaceutical industry</p>



Gaupale
Dr. T. C. Gaupale
I/C Head

Department of Microbiology
Vivekanand College, Kolhapur
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