

"Education for Knowledge, Science and Culture"
-Shikshanmaharashi Dr. Bapuji Salunkhe

**Shri Swami Vivekanand Shikshan Sanstha's
VIVEKANAND COLLEGE, KOLHAPUR
(EMPOWERED AUTONOMOUS)
Department of Biotechnology Optional
Academic year 2023-24 (NEP)
B.Sc. I Biotechnology Optional (Major group)
Semester I and II Course Outcomes (Cos)**

Semester	Major
Semester I	DSC-I: DSC03BIT11: FUNDAMENTALS OF BIOTECHNOLOGY-I
	At the end of this course, students will able to CO 1: Describe various proteins concerning their structural level. CO 2: Understand biotechnology Scope and importance and types of Biotechnology CO 3: Specify types of Diabetes & and symptoms and remedies. CO 4: Outline types & uses of Sugars & Lipids
	DSC-II: DSC03BIT12: FUNDAMENTALS OF BIOTECHNOLOGY-II
	After the completion of the course, the student will be able to: CO1: Isolate & and purify particular protein. CO2 Explain the principle of centrifugation CO3: Understand the working of the Microscope and its types like compound to the electron microscope CO4: Discuss the instrumentation & and working of UV visible spectroscopy.
Semester II	DSC-III: DSC03BIT21: MICROBIOLOGY
	After the completion of the course the student will be able to: CO 1: Elucidate the harmful activities of bacteria. CO 2: Design media to culture-specific bacterial strains. CO 3: Conclude the importance of sterilization CO 4: Compare various types of staining.
	DSC-IV: DSC03BIT22: CELL BIOLOGY & GENETICS
	After the completion of the course, the student will be able to: CO 1: List various cell organelles with functions. CO 2: Differentiate Prokaryotic and Eukaryotic Cells. CO 3: Elaborate the Mendelian Genetics. CO 4: Predict how crossing over helps in species diversity & evolution



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VIVEKANAND COLLEGE, KOLHAPUR
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**Department of Biotechnology Optional
Academic year 2023-24 (NEP)**

**B.Sc. I Biotechnology Optional (Minor group)
Semester I and II Course Outcomes (Cos)**

Semester	Minor
Semester I	MIN-I: MIN03BIT11: BASICS OF BIOTECHNOLOGY-I
	After the completion of the course, the student will be able to: CO1: Describe various proteins concerning their structural level CO2: State scope of Biotechnology at national and international level CO3: Specify types of Diabetes, causes, and remedies CO4: To understand the types and uses of sugars and Lipids
	MIN-II: MIN03BIT11: BASICS OF BIOTECHNOLOGY-II
	After the completion of the course, the student will be able to: CO1: Isolate and purify particular protein. CO2 Explain the principle of centrifugation CO3: Understand the workings of Microscope CO4: Discuss the instrumentation & and working of UV visible spectroscopy
Semester II	MIN-III: MIN03BIT21: BASICS OF MICROBIOLOGY
	After the completion of the course, the student will be able to: CO1: Elucidate the harmful activities of bacteria. CO 2: Design media to culture-specific bacterial strains. CO 3: Conclude the importance of sterilization CO 4: Compare various types of staining
	MIN -IV: MIN03BIT22: BASICS OF CELL BIOLOGY
	After the completion of the course, the student will be able to CO 1: List various cell organelles with functions. CO 2: Differentiate Prokaryotic eukaryotic Cells. CO 3: Elaborate the Mendelian Genetics CO 4: Predict how crossing over helps in species diversity and evolution



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Department of Biotechnology Optional
Academic year 2023-24 (NEP)
B.Sc. I Biotechnology Optional (Open elective)
Semester I and II Course Outcomes (COs)

<u>Semester</u>	<u>Course Outcome</u>
Semester I	OEC-I: OEC03BIT11: SCOPE OF BIOTECHNOLOGY-I
	CO1: Understand the fundamental Biotechnology CO2: Understand new and old Biotechnology CO3: Understand the Biotechnology and environmental impact CO4: Understand food Biotechnology
	OEC -II: OEC03BIT12: SCOPE OF BIOTECHNOLOGY-II
	CO1: Understand the principles of health biotechnology CO2: Understand the bioprocesses related to Biotechnology CO3: Understand the construction, and applications of Plant tissue culture CO4: Understand the construction, and applications of animal tissue culture
Semester II	OEC-III: OEC03BIT21: IMMUNOLOGY
	CO1: Understand the role of immunity in an individual CO2: Understand the importance of cells and organs of the immune system CO3: Understand the nature of antigen and mode of action CO4: Understand the nature of antibodies and their action against antigen
	OEC -IV: OEC03BIT22: TECHNIQUES IN r-DNA TECHNOLOGY
	CO1: Understand Scope of r-DNA technology CO2: Understand different techniques in r-DNA technology CO3: Explore the concept and types of PCR CO4: Understand the DNA sequencing techniques
	SEC -I: SEC03BIT29: BASIC INSTRUMENTATION IN BIOTECHNOLOGY
	CO1: Isolate & and purify particular protein. CO2 Explain the principle of centrifugation CO3: Understand the workings of Microscope CO4: Discuss the instrumentation & working of UV visible spectroscopy.



Bhaskar

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