B.Sc-I Entire	Biotechnology NEP COS 2023-2024 ESTD. JUNE 1964
Subject Offered Semester-I	Course Outcome
DSC07BTE11-	At the end of this course students will be able to:
Biotechnology-I	CO 1. To enumerate the importance of Biotechnology in
Biotechnology for Human	
welfare - I	Human Development.
	CO 2. To learn the different aspect of Biotechnology.
	CO 3. Understand the importance of Biotechnology in
	health.
	CO4. To learn the techniques of production of Biofertilizer.
DSC07BTE12-	At the end of this course students will be able to:
Biotechnology-II	CO 1. Understand basic concepts of origin of life
	CO 2. Outline the importance of carbohydrates and lipids
Biochemistry-I	in the diet.
	CO 3.understand the basic concepts of biological buffer
	system.
	CO 4. Predict and illustrate sap value, iodine value, and
	acid value.
MIN07BTE11-Microbiolgy-	At the end of this course students will be able to:
I- Introduction to Microbial	CO 1. Understand Historical background fr development
World.	of Microbiology
	CO 2 understand classification of Microorganisms
	CO 3. Understand the bacterial bacterial taxonomy
	CO 4. Distinguish Beneficial and Harmful
	Microorganisms.
MIN07BTE12-Microbiolgy-	At the end of the course students will be able to:
II- Techniques in	CO 1. Acquire the Knowledge about the different
Microbiology.	sterilization techniques.
3.0	CO 2. Perform different staining procedures.
	CO 3 distinguish different types of Microscopes.
	CO 4. Understand different concept of sterilization.
OEC07BTE11-	At the end of this course students will be able to:
Bio- Instrumentation	CO 1. Illustrate different methods of protein purification
	CO 2. Demonstrate and use different lab instruments
	CO 3 understand basic concepts of spectroscopy
	CO 4. Perceive the knowledge about different types of
	microscopy.
Subjects offered Semester-II	Course Outcomes
DSC07BTE21-Biotechnology-	At the end of this course students will be able to:
III-Biotechnology for Human	CO 1. Acquire the knowledge about importance of
welfare- II	biotechnology.
	CO 2. Acquire the knowledge about applications of

	biotechnology in commercial products.
	CO 3. Understand the importance of Biotechnology in plant and
	animal cell cultivation.
	CO 4. Acquire the knowledge about applications of
	biotechnology in conservation and environment.
DSC07BTE22-Biotechnology -	At the end of this course students will be able to:
IV	CO 1 Classify different types of proteins.
Biochemistry-II	CO 2. Elaborate the role of chromatography in purification of
	bimolecule.
	CO 3. Describe the functions of different coenzymes.
MINOSPECAL M. L. I	CO4. Explain IUB classification of enzymes.
MIN07BTE21-Microbiology-	At the end of this course students will be able to:
III- Bacterial Cytology & Cultivation.	CO 1. Illustrate the morphology of Bacterial cell CO 2. Classify the Microorganisms on the basis of Nutrition
Cultivation.	CO 3. Study the different pure culture techniques.
	CO4. Study different phases of Microbial Growth.
MIN07BTE22-Microbiology-	At the end of this course students will be able to:
IV-Virology	CO.1. Elucidate different structure of viruses.
	CO.2. Demonstrate experimental procedure for cultivation of
	viruses.
	CO. 3. Compare the replication of viruses.
	CO.4. Understanding the infection cycle of viruses.
OEC07BTE21-Ecology	At the end of this course students will be able to:
	CO1:- Appreciate the ethical, cross-cultural and historical
	context of environment with respect to classical ecology.
	CO2:- Construct the relationship between different
	biogeochemical cycles.
	CO3:- Outline the importance of Population ecology.
	CO4:- Reflect the importance of Evolution theories in ecology.
	At the end of this course students will be able to:
	CO 1. Understanding the diversity of life.
OEC07BTE22-Animal Science	CO 2. Reflect the importance of host parasite relationship
	CO 3. Explain the structure and functions of different types of
	tissue.
	CO4. Encourage the students to opt for carrier in applied
	zoology.
SEC07BTE21-Basics in Cell	At the end of this course students will be able to:
biology	CO 1.Percieve knowledge about the cell theory
	CO 2. Explain concept of types of membrane transport.
	CO 3.Understanding functions of different cell organelles CO. 4. Understanding of cytoskeleton elements.
	CO. 4. Onderstanding of cytoskereton elements.

DEPARTMENT OF BIOTECHNOLOGY (ENTIRE)
VIVEKANAND COLLEGE, KOLHAPUR
(EMPOWERED AUTONOMOUS)