B.Sc-II Biotechnology (Entire) CBCS Syllabus

<u>Vivekanand College, Kolhapur (Autonomous)</u> <u>Department of Biotechnology</u> Course outcome of B.Sc-II (Entire) Biotechnology CBCS Subject wise both Semester-III and IV Implemented from 2022-23

Subject Offered Sem-III:- C	Course Outcome
DSC 1345C	At the end of this course students will be able to:
Genetics	CO 1. Outline of Mendelian inheritance.
	CO2. Demonstrate the chromosome structure, chromatin
	organization and variation using model.
	CO 3. Perceive knowledge about the genetic disease.
	CO 4. Predict and illustrate model of Pedigree analysis.
DSC 1346C	At the end of this course students will be able to:
	CO 1. Illustrate the importance of spectroscopy.
Biophysics and Enzymology	CO 2. Choose the appropriate spectroscopy for specific
	bimolecule to interpret its structure.
	CO 3. demonstrate the experimental optimization of Enzyme
	activity and factors influencing them.
	CO 4. Able to construct the models explaining the mechanism of
	enzyme action.
DSC 1347C	At the end of this course students will be able to:
Metabolic Pathways	CO 1. compare different biochemical reactions in cell
	CO 2. Explain different methods to study metabolism.
	CO 3. Conclude the stiochiometry of metabolic pathways.
	CO 4. To analyze the relation between ATP generation and
	Electron transport Chain.
DSC 1348C	At the end of this course students will be able to:
Fcology	CO 1. Appreciate the ethical, cross-cultural and historical context
	of environment with respect to classical Ecology.
	CO 2. Construct the relationship between different
	biogeochemical cycles.
	CO 3. Outline the importance of population ecology.
	CO 4. Reflect the importance of Evolution theories in Ecology.
2212100	At the end of this course students will be able to:
DSC 1349C	CO 1. Explain structure and function of the macromolecules
Molecular Blology-1	CO2 List the underlined mechanism of Nucleotide Biosynthesis
	CO3. Compare the mechanism of replication in prokaryotes and
	eukarvotes.
	CO 4 Discuss DNA damage and repair mechanism,
	At the end of this course students will be able to:
DSC 1350C	CO 1 Construct the design required to set up plant tissue culture
Plant Tissue Culture	laboratory
	CO 2 Differentiate between different PTC techniques.
DEST	CO 2. Ullustrate the importance of Asepsis.
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Subject Offered Sem IV:- D	Course Outcome
DSC 1345D	At the end of this course students will be able to:
Immunology	CO 1. Differentiate between different types of immunity.
	CO 2. Classify cells of immune system.
	CO 3. Construct models demonstrating antigen-antibody
	interaction.
	CO 4. Perform various serological tests for diagnosis of various
	types' diseases.
DSC 1346D	At the end of this course students will be able to:
Advances in Cell Biology	CO 1. Elaborate the mechanism of cell communication.
	CO 2 Roles of different organelle in protein trafficking.
	CO 3 Predict causes of Cancer
	CO 4 Understand the mechanism of cell division
DSC 1347D	At the end of this course students will be able to:
Plant Biochemistry	CO 1 Explain mechanism of water abcorntion
, and the second s	CO(2) illustrate concept of photosynthesis
	CO 3. Differentiate between symbiotic and non symbiotic
	Nitrogen fixation
	COA Prodict the relationship between versalisation and
	photoperiodium
DSC 1348D	At the end of this service students will be able to
Environmental Biotechnology	CO 1. Classify different kinds of nethation
Bioteennology	C(2) Describe the concert of tonicity
	CO(3) Describe sources of biosthemal and dusting
	CO4. Discover the different wave of Discover dist.
DSC 1349D	At the and of this source students ill he had
Molecular Biology-II	At the end of this course students will be able to:
Molecular Biology-II	transcription & post-
	CO 2 outline the character of genetic
	CO 2. Compare the machanism of T we have $CO = 0$
	translational modification in proclamation & post-
	CO4. Draw a contract between ensure we dely a
	evoression
DSC 1350D	At the end of this source students will be able to
Animal Tissue Culture	CO 1. Construct the design required to get up to the
Annual Tissue Culture	culture laboratory.
	CO 2. Classify different characters and biology of cultured cells
	CO 3. Define scale up of animal cell culture.
	CO4. Appreciate the importance of stem cell technology



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