

Vivekanand College, Kolhapur (Autonomous)

Department of Biotechnology (Entire)

Course outcome of B.Sc-I (Entire) Biotechnology CBCS

Subject wise both Semester-I and II


Implemented from September 2021



Subject Offered Sem-I:- A Sem-II:- B	Course Outcome
DSC 1331 A Chemistry-I	At the end of this course students will be able to: CO 1 Analyze the relation between different measures of concentration CO2. Construct the thermodynamic models for reaction rate CO3.learn the concepts of hybridization CO4.calculate Gibb's free energy for biological process.
DSC 1332 A Biochemistry-I	At the end of this course students will be able to: CO 1. Understand basic concepts of origin of life CO 2. Outline the importance of carbohydrates and lipids 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.
DSC 1333 A Plant Science	At the end of this course students will be able to: CO 1. Understand general classification of plant kingdom CO 2.explain the terms used in plant morphology and taxonomy CO 3.outline the general characters of Algae, Bryophytes etc. CO 4.explain the rules of taxonomy.
DSC-1334-A-Biotechnology for Human welfare - I	At the end of this course students will be able to: CO 1. To enumerate the importance of Biotechnology in Human Development. CO 2. To learn the different aspect of Biotechnology. CO 3. Understand the importance of Biotechnology in health. CO 4.To learn the techniques of production of Biofertilizer.
DSC 1335 A Computer	At the end of this course students will be able to CO 1 Choose the operating system for computers. CO2 To learn different aspects of office operations. CO3 Outline the database management system. CO4 Acquaint student with basic computer knowledge
DSC 1336 A Biotechniques and Instrumentation	At the end of this course students will be able to: 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.
DSC 1337 A Microbiology-I	At the end of this course students will be able to: CO 1. Choose specific staining techniques for various types of Microorganisms. CO 2 explain different methods required for sterilization CO 3. Understand the bacterial taxonomy CO 4.understand nutritional requirements of bacteria.
DSC-1338-A-Biotechnology for Human welfare - II	At the end of this course students will be able to: CO 1. Acquire the knowledge about importance of biotechnology. CO 2. Acquire the knowledge about applications of biotechnology in agriculture. CO 3. Understand the importance of Biotechnology in health. CO 4. Acquire the knowledge about applications of biotechnology in conservation and environment.
Subject Offered Sem-II:- B	Course Outcome
DSC 1331 B Chemistry-II	At the end of this course students will be able to: CO 1. Describe the mechanism of organic evolution CO 2.elaborate the concept of aromaticity CO 3.compare the gravimetric and titrimetric analysis CO4.explain chemical nature of natural products.
DSC 1332B Biochemistry-II	At the end of this course students will be able to: CO 1 Classify different types of proteins. CO 2. Elaborate the role of chromatography in purification of bimolecule. CO 3. Describe the functions of different coenzymes. CO4. Explain IUB classification of enzymes.
DSC 1333 B Animal Science	At the end of this course students will be able to: CO 1. Understanding the diversity of life. 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.
DSC 1334 B Biostatistics	At the end of this course students will be able to: CO 1. To learn the details nature of Biological Data CO 2. Explain the importance of sampling CO 3. Perceive the knowledge of probability & testing hypothesis. CO4. Outline the importance of graphical representation of data.



DSC-1335-B-Introduction to Bioinformatics	At the end of this course students will be able to: CO 1. To understand the importance of Bioinformatics in Biotechnology CO 2. Illustrate the relation Online data and Biological Data. CO 3. Explain importance of Biological Database. CO4. Outline the different software used in Bioinformatics
DSC 1336 B Basics in cell biology	At the end of this course students will be able to: CO 1. perceive knowledge about the cell theory CO 2. Explain concept of different types of membrane transport. CO 3. Illustrate the basic structure of Cell, CO4. Outline the types of conservation in expression.
DSC 1337B Microbiology-II	CO 1. Acquire the Knowledge about the isolation of microorganism in pure culture from mixed population. CO 2. To carry out microbiological analysis of water CO 3. To conclude Different modes of transmission of diseases. CO 4. To isolate pure culture by different techniques.
DSC-1338-B-Developmental biology	At the end of this course students will be able to: CO 1. Reflect the importance of various processes in Development of Organism. CO 2. Understand basic concepts of Gametogenesis CO 3. Differentiated between animal and plant development. CO 4. outline the concepts of Embryonic Development.


Head

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