

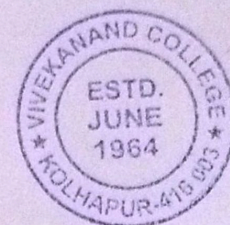
**Vivekanand College, Kolhapur (Autonomous)**

**Department of Biotechnology**

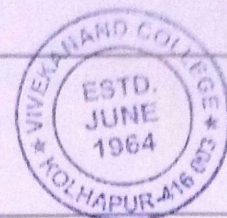
**Course outcome of B.Sc-I (Entire) Biotechnology CBCS**

**Subject wise both Semester-I and II**

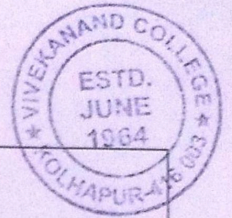
**Implemented from June 2018**



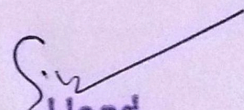
<b>Subject Offered Sem-I:- A Sem-II:- B</b>	<b>Course Outcome</b>
<b>DSC 1331 A</b> Chemistry-I	At the end of this course students will be able to: CO 1 Analyze the relation between different measures of concentration CO2. Construct the thermodynamic models for reaction rate CO3.learn the concepts of hybridization CO4.calculate Gibb's free energy for biological process.
<b>DSC 1332 A</b> 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.
<b>DSC 1333 A</b> 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.
<b>DSC 1334 A</b> Mathematics	At the end of this course students will be able to: CO 1.differentiate various types of matrices. CO 2.Outline the importance of Bernoulli differential equation CO 3.Explain the system of linear equation CO 4.Discuss the mathematical theorem
<b>DSC 1335 A</b> 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 the students with basic computer knowledge
<b>DSC 1336 A</b> 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.



<b>DSC 1337 A</b> 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.
<b>DSC 1338 A</b> Physics-I	At the end of this course students will be able to: CO 1. Reflect the importance of various temperature scale CO 2. understand basic concepts of elasticity CO 3. Demonstrate the nature of electromagnetic waves. CO 4. outline the concepts of viscosity, surface tension.
<b>DSC 1331 B</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 CO 4. explain chemical nature of natural products.
<b>DSC 1332B</b> <b>Biochemistry-II</b>	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 biomolecule. CO 3. Describe the functions of different coenzymes. CO 4. Explain IUB classification of enzymes.
<b>DSC 1333 B</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. CO 4. Encourage the students to opt for carrier in applied zoology.
<b>DSC 1334 B</b> <b>Statistics</b>	At the end of this course students will be able to: CO 1. Differentiate between correlation & regression CO 2. Explain the importance of random sampling CO 3. Perceive the knowledge of probability & testing hypothesis. CO 4. Outline the importance of graphical representation of data.
<b>DSC 1335 B</b> <b>Computer</b>	At the end of this course students will be able to: CO 1. Explain the importance of programming CO 2. Illustrate the relation between symbolic and logical operator. CO 3. Explain importance of formatting CO 4. Outline the types of conservation in expression.



<b>DSC 1336 B</b> <b>Basics in cell biology</b>	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 structure of the cell. CO4. Outline the types of conservation in expression.
<b>DSC 1337B</b> <b>Microbiology-II</b>	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.
<b>DSC 1338 B</b> <b>Physics-II</b>	CO 1. To correlates optics with microscopy. CO 2. Appreciate the importance of laser. CO 3. Discuss different types of semi-conductor devices. CO 4. Draw microbial growth curve.

  
Head

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