

Subject Offered	Course outcomes paper wise for B.Sc-III Biotechnology entire for 2023-2024
Sem-V:- F	
Sem-VI:- F	
DSC07BTE51 Basics in Genetic Engineering	<p>At the end of this course students will be able to:</p> <p>CO 1. Understand the concept of cloning      CO 2. Demonstrate the techniques of DNA fingerprinting      CO 3. Perceive knowledge about sequencing technology.      CO 4. Illustrate the importance of probe designing</p>
DSC07BTE52 Industrial Biotechnology	<p>At the end of this course students will be able to:</p> <p>CO 1. Construct the design required to set up industrial fermentation.      CO 2. Draw a contrast between industrial &amp; pilot fermentation      CO 3. Discover various ways of media formulation for industrial scale.      CO 4. Compare classical &amp; Modern fermentation techniques.</p>
DSC07BTE53 Enzymology	<p>At the end of this course students will be able to:</p> <p>CO 1. To educate students about the fundamental concepts of enzyme      CO 2. To study different types of enzyme      CO 3. To enable the students to outline Enzyme kinetics      CO 4. To gather knowledge of separation and purification of enzyme</p>
DSC07BTE54 Research methodology in Biotechnology	<p>At the end of this course students will be able to:</p> <p>CO 1. To understand the different types of research work      CO 2. To present the research work scientifically      CO 3. Illustrate the mechanism/working of Instrumentation use in Research Methodology      CO 4. To perform the Application of Spectroscopy</p>
DSE07BTE51 Animal tissue culture	<p>At the end of this course students will be able to:</p> <p>CO 1. Construct the design required to set up animal tissue culture laboratory      CO 2. Classify different characters and biology of cultured cells      CO 3. Illustrate the importance of asepsis      CO 4. Understand the importance of stem cell technology</p>
DSC07BTE61 Advance in Genetic Engineering	<p>At the end of this course students will be able to:</p> <p>CO 1. Reflect the importance of chemical synthesis of DNA.      CO 2. Differentiate various types of PCR &amp; their applications.      CO 3. Appreciate the importance of screening.      CO 4. study impact of GM foods on human health.</p>
DSC07BTE62 Applications of Biotechnology in Agriculture	<p>At the end of this course students will be able to:</p> <p>CO 1. Outline the importance of Hybridization &amp; mutation in crop improvement.      CO 2. Explain the techniques of artificial seed germination.      CO 3. Discuss the strategies to develop transgenic plants      CO 4. Formulate bio fertilizer.</p>
DSC07BTE63 Biosafety, Bioethics and IPR	<p>At the end of this course students will be able to:</p> <p>CO 1. Learn the concept of Bio safety      CO 2. Understand the mechanism of Intellectual Property Rights.      CO 3. Classify different characters &amp; functions of Bioethics.</p>

**B.Sc-III Biotechnology (Entire) As Per NEP Phase 1.0 Syllabus**

<b>CO 4 Elaborate the process- Intellectual Property Rights</b>	
<b>DSC07BTE64</b> Bioinformatics	At the end of this course students will be able to: CO 1. Outline the importance of Human Genome Project. CO2. List different types of structural database. CO 3. Explain the importance of phylogenetic analysis. CO 4. Construct drug molecules.
<b>DSE07BTE61</b> Plant Tissue Culture	At the end of this course students will be able to: CO 1. Understand the importance of plant tissue culture CO 2. Technically trained with good practical exposure (different PTC techniques) to perform plant cell culture CO 3. Illustrate the importance of asepsis CO 4. Construct the design required to set up plant tissue culture laboratory



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