

Shri Swami Vivekanand Shikshan Sanstha's
VIVEKANAND COLLEGE, KOLHAPUR (AUTONOMOUS)
Department of Biotechnology Optional
The academic year 2019-20 B.Sc. II Biotechnology Optional
COS for Semester III And IV

Semester	Course outcomes
Semester III	
Paper-III	DSC-1009C Enzyme Technology and Molecular Biology
	<p>CO1: Enzyme Technology deals with the study of the detailed structure & and function of Enzymes. The course will allow an understanding the following concepts: IUB classification and Steady-state kinetics. Students can understand the effect of various factors on enzyme activity.</p> <p>CO2: Students are gaining knowledge regarding various methods in industries used for enzyme and cell immobilization. After completion of this course students will understand the use of biosensors in daily life.</p> <p>CO3: Molecular Biology gives knowledge about structure and function of the macromolecules, essential to life. of biological and/or medicinal processes through the investigation of the underlying molecular mechanisms.</p> <p>CO4: After completion of this course students will understand the following techniques; a) Gel Electrophoresis b) Blotting Techniques c) Polymerase Chain Reaction</p>
Semester IV	
Paper-IV	DSC-1009D Immunology and rDNA technology
	<p>CO1: The course discusses basic immunology including cellular and molecular processes that represents the human immune system.</p> <p>CO2: This subject offers detailed study of following concepts; a) Immunological processes at a cellular and molecular level b) Defense mechanism (Physico-chemical barriers) c) Innate & Acquired Immunity d) Antigen & Antibody (Reactions) e) Hypersensitivity.</p> <p>CO3: In r-DNA technology By virtue of this technology, crucial proteins required for health problems and dietary purposes can be produced safely, affordably, and sufficiently.</p> <p>CO4: After completion of this course students will understand following Concepts; a) Restriction Digestion b) Ligation c) Plasmid Construction d) Gene Transfer Methods e) Recombinant Insulin f) Recombinant Vaccines</p>



Head

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