Yashwantrao Chavan College of Science Karad

Department of Microbiology (PG)

Course Outcomes (COs)

CC-301: Biostatistics, Bioinformatics and Scientific Writing After completion of this course, students will be able to,	
CO 1	Understand applications of different statistical parameters
CO 2	Understand role of different statistical test for validation of experimental data
CO 3	Understand the use of computer softwares for analysis of biological data
CO4	Learn the ethics of scientific writing and publishing research

CCS-302- Enzymology and Enzyme Technology After completion of this course, students will be able to,	
CO 1	Learn basic concept of enzymology
CO 2	Understand kinetics of enzyme catalyzed reaction
CO 3	Know about industrial applications of enzyme

CCS-303- Fermentation Technology After completion of this course, students will be able to,	
CO 1	Understand the basic concepts of fermentation
CO 2	Know about different types of fermentors & fermentation processes and problems

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CO 3	Understand specific fermentations of industrially important products
CO 4	Know about role of computer in fermentation technology
DSE-304- Quality Control Microbiology-I After completion of this course, students will be able to,	
CO 1	Learn biosafety levels microbiology laboratory
CO 2	Understand safe handling of biological materials in laboratory
CO 3	Learn basics of sterilization and sterility assurance
CO 4	Learn about safety cabinets and protective equipments

CCPR-305- Laboratory course After completion of this course, students will be able to,	
CO 1	Use statistical methods in data analysis
CO 2	Learn basic practical skills in Bioinformatics & Scientific writing
CO 3	Understand the effect of different factors on enzyme kinetics
CO 4	Know about calibration and validation of laboratory instruments

CC-401- Food and Dairy Microbiology After completion of this course, students will be able to,	
CO 1	Understand different methods of food preservation
CO 2	Learn different food borne diseases
CO 3	Acquire knowledge about probiotic and different food safety and standards
CO 4	Commercial values of fermented foods

CCS-402- Industrial waste management After completion of this course, students will be able to,	
CO 1	Characterize industrial effluents and their adverse effects on environment
CO 2	Learn the role of microorganisms in treatment of industrial waste
CO 3	Know about the rules and regulations of waste disposal

CCS-403- Recombinant DNA Technology After completion of this course, students will be able to,	
CO 1	Understand Modern tools and techniques in molecular biology.
CO 2	Understand methods of cloning and its significance.
CO 3	Learn the role of Recombinant DNA technology in industries

DSE-404- Quality Control Microbiology-II After completion of this course, students will be able to,	
CO 1	Learn the role of various regulatory agencies in pharmaceutical sector
CO 2	Understand how to maintain the clean rooms and monitoring the environment
CO 3	Learn the data keeping and auditing process

CCPR-405- A-Laboratory Course After completion of this course, students will be able to,	
CO 1	Analyze microbiological quality of the milk and milk products
CO 2	Learn about characterization and treatment of industrial effluents
CO 3	Understand the basics of plant tissue culture

HEAD
DEPARTMENT OF MICROBIOLOGY

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Principal
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