

DEPARTMENT OF MICROBIOLOGY

7. Programme specific outcome of Industrial Microbiology

The programme specific outcome of the B.Sc –III syllabus in Industrial Microbiology will introduce the students with

- Knowledge regarding basic, advanced and applicable concepts in emerging areas of Industrial Microbiology.
- Skills required for their careers in various industries, research and various branches of Life Sciences.

COURSE: B.Sc –Industrial Microbiology

Details of course outcome, i.e. (CO & CSO)

Course : B.Sc. I (CBCS Pattern)

Paper I	Introduction to Industrial Microbiology	Development of Industrial Microbiology and study of industrially important micro-organisms
Paper II	Basics of fermentation	Study of fermentation media
Paper III	Introduction to Fermentation Technology	Study of fermenter, factors affecting fermentation process
Paper IV	Microbial Fermentation and Economics	Production, recovery, Assay and economics of fermentation

Course: B.Sc. II (Old Pattern)

Paper V	Industrial Production of Fermented Foods	Microbial Production, spoilage and preservation of Dairy, Bakery products, alcoholic beverages and pickles
Paper VI	Quality Control of Food Products	Microbiological quality control and regulations for quality assurance of food products
Paper VII	Fermentation Technology	Microbial production of Antibiotics, organic acids, Enzymes, solvents and amino acids
Paper VIII	Industrial Production of Biofertilizers	Production and standards of nitrogen fixing and phosphate solubilizing biofertilizers

Course: B.Sc III (Old Pattern)

Paper IX	Environmental Microbiology	Exploring microbial activities in soil, marine, textile, petroleum mines
Paper X	Basic Techniques in Biotechnology	Techniques in Biotechnology and molecular biology
Paper XI	Quality Assurance and Quality Control in Industrial Products	Rules and regulations of the regulatory authorities
Paper XII	Microbial Production of Metabolites and Bioinsecticide	Industrial microbial production of health and agricultural products

PaperXIII	Environmental Pollution and Control	Study of pollution,parameters and monitoring in different environment
PaperIVX	Applications of Biotechnology	Applications of Biotechnology in agriculture,industry, Environment and medical field
PaperXV	Industrial Management, Government laws and Regulations	Industrial management and laws
PaperXVI	Microbial Fermentations, Foods and Biofuels	Microbial production of liquors,biofuels and use of microbes in foods