

Pro

Micro Biology

ONLINE PROGRAM



Objectives of Training & Projects are:

- Students are provided training and individual exposure to each Instrument and Applications which helps them to gain Technical knowledge, thus improve their job prospects.
- The curriculum offered covers the entire spectrum of Biotechnology and Microbiology.
- It aims at understanding how research tools and experimentation can be exploited to understand questions of fundamental significance in the field of Life Science.

Eligibility: B.Sc/M.Sc/BTech/MTech – BioTechnology / MicroBiology / Biochemistry, BE Biotech, Pharma graduates, Research Scholars, Medical Students, Dental Students.

SYLLABUS

6 Sessions

Introduction

Introduction to Microbiology & Microbial Diversity
Introduction to Biology
Microbial Diversity
Microbial Metabolism
labs

Bacteriology and Virology

Biochemistry
Virology
Bacteriology & Virology
Microbial Physiology & Metabolism
labs



Cell and Molecular Biology

Cell Biology
Molecular Biology
Microbial Metabolism
Microbial Genetics & Molecular Biology
Microbial Genetics & Genomics
labs

Food and Environmental Microbiology

Environmental Microbiology
Food & Dairy Microbiology
Industrial & Food Microbiology
Microbes in the Environment
labs



Medical Microbiology

Medical Microbiology
Recombinant DNA Technology
Microbial Diagnosis in Health Clinics
Inheritance Biology
labs

Industrial Microbiology and Immunology

Industrial Microbiology
Microbial Quality Control in Food
Pharmaceutical Industries
Biofertilizers & Biopesticides
Immunology
labs

Projects:

Calculations, Preparation of reagents and buffers, Media, Genomic and Plasmid DNA isolation, RNA isolation, Quantification, Agarose gel electrophoresis, PCR, Restriction Digestion, Ligation, Preparation of competent cells, Transformation, Screening for Recombinant Cells, Conjugation.



Projects You Will Be Working Upon:

- Isolation Screening & Production of Biopesticides from natural & commercial strains like BtK, BtI etc.
- Production of Industrially important Enzymes from commercial microorganisms [Isolation & Screening can be done from natural resources].
- Production of Antibiotics from commercial fungal & bacterial sources [Natural isolation and screening can be done].
- Production of Secondary metabolites from selected microorganisms.
- Production of therapeutically important molecules.
- Research studies on Quorum sensing in Plant & Animal microbial pathogens
- Screening & identification of keratinase producing bacteria from various natural habitats
- Production of restriction endonucleases from commercial bacterial sources
- Production of L - Asparaginase
- Production of Biofungicide



OUR AUTHORIZED TRAINING & CERTIFICATION PARTNERS



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Experience Research; Transform Life

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