

EXPLORE OUR TRAINING PROGRAM FOR HIGHER EDUCATION

Industry Updated 100% Hands On Learning

Our training programmes are specifically created for the career advancement of students to assist them in learning about cutting-edge technologies and enhancing their abilities for food, pharma, biotechnology, pharmaceutical industry and research.

Our Program For

Advanced lab training can significantly strengthen your application to foreign universities, especially for Pharmacy, Biotech, Cosmetic Science, and other research-focused programs.



State of art
Lab Facility



Industry Updated
Learning

5000

Square Feet
Lab Space



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WhatsApp



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Module 1: In-vitro Cell Culture

Unit 1: Preparation and Sterilization of Culture Media

Unit2: Sub-culturing (Passaging) of Adherent / Suspension Cells

Unit3: Microscopic Observation of Cell Morphology & Cell Counting

Unit4: Trypsinization and cryo Preservation of cells

Module 2: Drug Screening Assays

Unit 1: Drug Cytotoxicity Analysis

Unit 2: Trypan Blue Exclusion Assay

Unit 3: LDH Release Assay

Unit 4: Catalase Assay in Cells

Module 3: Drug Analysis by Flow Cytometry

Unit 1: Basics of Flow Cytometry in drug analysis

Unit 2: Cell counting by Flow Cytometer

Unit 3: SYBR Green or Propidium Iodide (PI) Cell Staining

Unit 4: Data Analysis

Module 4: Immunofluorescence Assay For Diagnosis

Unit 1: Basics and Calibration of FL-Microscopy

Unit2: SYBR[®] Green Staining for Microscopy

Unit3: Immunofluorescence Characterization

Unit4: Olympus FluoView FV1000 software

Module 5: Nucleic Acid Extraction (DNA & RNA) & Its Purity Analysis

Unit 1: DNA Extraction

Unit2: Quantitative & Qualitative Analysis of DNA Qualitative Analysis of DNA

Unit3: RNA Extraction

Unit4: RNA Quantification and Purity Check

Module 6: Stem Cell Extraction & Pluripotency Assay

Unit 1: Isolation of Stem Cells

Unit2: Subculture of cells and maintenance

Unit3: DNA Extraction & Quality check

Unit4: Pluripotency marker analysis - Nanog gene

Module 7: Gene Expression by Real Time PCR

Unit 1: Total RNA Extraction & First Standard cDNA Synthesis

Unit 2: Basics of Real Time PCR, Primer Design and Software

Unit 3: Real Time PCR Sample Run

Unit 4: Data Analysis and Reporting

Module 8: Genetic Engineering Technique

Unit 1: PCR amplification of gene of interest

Unit2: Digestion of Plasmid with restriction enzymes used for GOI

Unit3: Ligation of Plasmid Vector and Digested PCR Product

Unit4: Transformation into Competent Cells





Module 9: Microbiology and Bio-Process

Unit 1: Isolation and Culturing of Microorganisms

Unit 2: Bacterial Growth Curve & cell count

Unit 3: Production of biomass & measurement

Unit 4: Cell Harvesting & Product Recovery

Module 10: Optimization & Partial Purification

Unit 1: Fed-Batch Fermentation Simulation

Unit 2: Enzyme Activity Assay

Unit 3: Determination of Specific Growth Rate (μ) and Yield Coefficient

Unit 4: Partial Purification

Module 11: Protein Liquid Chromatography (FPLC)

Unit 1: Basics of Protein Liquid Chromatography & Buffer Preparation

Unit 2: Fast Protein Liquid Chromatography - Affinity, Ion Exchange and Size Exclusion

Unit 3: Run of Protein Sample in Protein Chromatography System

Unit 4: Data Analysis & Software handling

Module 12: Protein Analysis

Unit 1: Protein Estimation Assay

Unit 2: Analysis of Protein by SDS-PAGE

Unit 3: Zymography

Unit 4: Protein / Enzyme Activity Assay

Module 13: ELISA & Western Blot

Unit 1: ELISA-based binding studies

Unit 2: SDS-PAGE Electrophoresis for Western Blot

Unit 3: Transfer on PVDF or Nitrocellulose Membrane

Unit 4: Blocking, Antibodies and Detection

Module 14: Quality Analysis of Pharma Products by HPLC

Unit 1: Principle of HPLC, Parts, Detectors and Application

Unit 2: Sample and Standard Preparation of Pharma Product

Unit 3: Chromatographic Conditions and Sample run

Unit 4: Data Analysis & Reporting

Module 15: Analysis by Gas Chromatography

Unit 1: Principle of GC, Parts, Detectors and Application

Unit 2: Sample and Standard Preparation of Pharma Product

Unit 3: Chromatographic Conditions and Sample run

Unit 4: Data Analysis & Reporting

Module 16: Herbal Extraction & Analytical Procedures

Unit 1: Soxhlet Extraction, Drying the solvent by Vacuum Rotary Evaporator

Unit 2: Qualitative assay of Herbals - Assay

Unit 3: Quantitative assay

Unit 4: Size Exclusion Column Chromatography





TRAINING FEE

INR 50,000 /- & INR 10,000/- extra for research Paper along with the Training (Optional)


DURATION

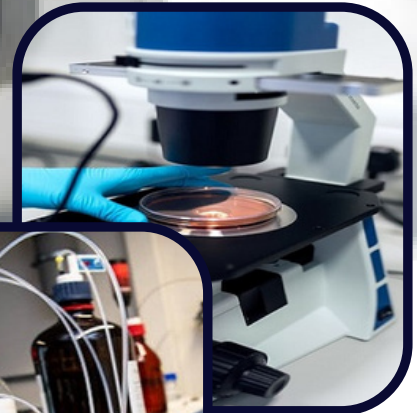
3 Months

ADVANTAGE OF TRAINING PROGRAM

- You will cover all major techniques of biological sciences and chemistry like; In-vitro cell culture, Flow Cytometry, Immunofluorescence Assay, Advance Microscopy, ELISA, PCR & Real Time PCR, Genetic Engineering, Protein Production, Protein Purification by FPLC, Protein Analysis, HPLC & Gas Chromatography
- Hands on experience on these technique will enhance your chance to get **part time or full time job** in Bio-pharma Production, Biotechnology Research Lab, Pharma Industry, Diagnostic Lab, Cosmetics, Food Labs etc. (Verify the use of technique with AI)
- Chances to get a Good Scholarship and admission in reputed university.
- Research paper will be an additional academic advantage.

GENERAL INFORMATION

- We have not included the basic experiment like; chemical preparation, normality, molarity, buffers, electrophoresis, media preparation, pH, sterilisation etc.
 - You will **use bioinformatics tool** during your experiments.
 - **All basic test** are **automatically incorporated in our training**.
 - You will **get certificate** after completion of training program.
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About Us

We aim to provide the highest quality services to our clients, considering our performance, consistency, safety, and value. To achieve this, we are continually improving processes, products, and services, meeting and exceeding customer satisfaction at all times.



Lab Services



Research



Testing



Products

Why Choose Us?

We have a dedicated team of chemists, biotechnologists, analysts, engineers, and specialists to assist in our technological solutions and product development.