

COURSE - II ADVANCE TRAINING FOR COSMETIC & PERFUME INDUSTRY

The overall goal of the training program in biotechnology can lead to a multitude of careers in botany, genetics, medicine and biotechnology. While entry-level positions can be achieved with a bachelor's degree, greater levels of education afford more opportunities - specifically with regards to research and teaching opportunities.



Scope of training :

- Research & Development
- Molecular Diagnostic Lab
- Food & Beverage Industry
- Pharmaceutical Industry
- Herbal & Nutraceuticals Industry
- Forensic Labs

Advantage -

- Industry Oriented Design
- Spirit of the training is to make you employable
- Rigorous Hands on Learning
- Capacity Building
- State of art research facility
- Flexibility of Time & Working Hours

Note :

1. Kindly Clear All doubts regarding Research Facilities, Training Syllabus , Boarding, Lodging etc.
2. After satisfaction from all informations , initiate your process and get registered.
3. We will send bank details after receiving of your documents.
4. Admission Fee once paid is non-refundable and non transferable under any circumstances.
5. We do not guarantee the issuing VISA after the above payment, which is solely the decision of VISA officer in Indian Consulate in your country.

TRAINING SYLLABUS

UNIT – 1 LAB SAFETY, PROCEDURES & REGULATION

Basics of Cosmetic Laboratory : Record Maintenance, Handling of Equipments , Sterilisation Techniques , Preparation of Chemical & Reagents. Discussion of ethical, legal, and social issues involved in Cosmetic & Perfume Industry, Cosmetic & Drug Regulations

UNIT – 2 : QUALITY CONTROL AND QUALITY CHECKS IN COSMETIC MICROBIOLOGY

Quality Control Checks in Cosmetic Microbiology - New Methods , Comparison of Plate Counts , Duplicate Analysis , Sterility Check : Procedural Blank , Media Blank , Field Blank , Positive & Negative Control Cultures Total Coliform Analysis in Cosmetics & Documentation of Coliform Data.

UNIT - 3 : HANDS ON LEARNING ON MICROBIOLOGY TECHNIQUES

Aerobic Mesophilic Plate Count – Preparation of Food homogenate , Dilution , Pour Plating , Incubation , Counting Colonies , Calculation , Result Analysis. Analysis of Aciduric Flat Sour Spore Formers in Food

Analysis and characterisation of various oils and fats for adulteration Qualitative analysis of Liquor – Chemical test for different oils and fats. Quantitative analysis of alcohols by Spectroscopy , TLC , HPLC & Gas Chromatography

UNIT 4 : DETECTION OF COSMETIC PATHOGENS BY PCR TECHNOLOGY

Introduction to PCR , Primer Designing & Selection , PCR Optimization & Troubleshooting , PCR Run for Reactions , Analysis of PCR Results Detection of Food Pathogens by PCR

UNIT 5 : DETECTION OF COSMETIC PATHOGENS BY REAL TIME PCR TECHNOLOGY

Real Time PCR Technology – Introduction to Real Time PCR , Primer Designing for Real Time PCR , Application of Real Time PCR in Food Genetics , Real Time PCR Run For Food Samples , Data Analysis

COSMETIC CHEMISTRY & RESEARCH

UNIT – 6 : QUALITY CONTROL AND QUALITY ASSURANCE

Quality Control Checks in Cosmetics - Physical and Chemical Analysis , Initial Method Validation , On Going Method Validation , Laboratory Blanks , Duplicate Determinations , Calibrations , Q.C. Calculations , Q.C. Charts etc. Operation and Calibration of Meters : pHMeter (Hanna , Thermo) , Conductivity Meter , Dissolved Oxygen Meter , Spectrophotometer , Pipettes , Turbidity Meter etc.

UNIT 7 - LEARNING ON HPLC , GC , SPECTROSCOPY AND OTHER TECHNIQUES

Analysis of Food Samples by HPLC – Basics of HPLC - Sample Preparation , Gradient Making , Parts of HPLC , Troubleshooting and Maintenance , Operating Procedure of HPLC , Run the sample in HPLC . Data Analysis

Analysis of Food Samples by Gas Chromatography – Basics of GC - Sample Preparation , Parts of GC , Troubleshooting and Maintenance , Operating Procedure of GC , Run the sample in GC , Data Analysis

UNIT 8 - ANALYSIS OF FINISHED COSMETIC PRODUCTS

Viscosity Analysis, Refractive Index, Test of Allergens, ph analysis, moisture analysis in cosmetic products, Test of Amino Acids, Analysis of antioxidants used in cosmetic products, Determination of preservatives in cosmetics.

UNIT 9 - TOXICOLOGY OF COSMETIC PRODUCTS

Test of Benzene, Test of BHT , Test of Formaldehyde etc. in finished cosmetic product, essential oil or fine fragrances Method – Spectroscopy , HPLC , GC

UNIT 10 - DEVELOPMENT & ANALYSIS OF PERFUMERY PRODUCTS

Perfume Development, Purity Analysis of Essential Oil Identification of Adulterants, Purity Analysis, Formulation & Analysis of Fragrances Fragrance creation Strategies, Fragrance creation by natural oils, fragrance creation by synthetic compound, Novel Product Strategies, Quality analysis, Packaging Strategy, Marketing of Cosmetic Product

Fee Structure : USD 1,500 /-

Duration : 250 Hours (20 to 30 Days) **Timings :** Monday - Saturday (8 A.M to 8 P.M)

HOW TO APPLY –

Details of For Registration :

1. Valid Passport
2. Filled **Registration form** with photograph (Given in Last Page of Brochure)
3. Recommendation letter from Head of the Institution
4. Any Identity card issued by the Institution or Govt.
5. **Send all documents at :** info@allelelifesciences.com for issuance of the invitation letter and pay registration fee (USD 50) through Bank or wire Transfer
6. Send approval letter of your institution and valid VISA at : info@allelelifesciences.com
7. **Pay Training Fee USD 1500** through Bank or Wire Transfer or at the first day of joining the training program in India

Registration Form

Name of Training Program :

Expected Date of Joining :

Candidate Details :

Name:

Father's Name:

Address :

Contact No :

Email:

Institution :

Qualification :

TERMS & CONDITIONS

1. The admission to training / internship programs will be confirmed after the payment of registration fee along with documents.
2. The registration fee deposited is completely non refundable.
3. The industrial training fee includes the cost of chemical , reagents and study material costs.
4. I will deposit the service charges as decided by the company at the time of joining date of training program.
5. Students have to bear their own boarding/lodging /conveyance charges. We facilitate students in finding proper paying guest arrangements.
6. The trainees will have to bring their own lab coat and wear them all the time in the campus.
7. Trainees are selected on first come first serve basis
8. Trainees will maintain adequate discipline inside the lab premises.
9. Company will not be responsible for any medical, legal issues during the internship tenure and FRRO Registration in India.

DECLARATION

I _____ from _____

hereby declare that all statement/information given in the application form are true to the best of my knowledge and belief . I will strictly abide by the norms/lab etiquette during the training

Signature

Place: _____

Date: _____

For office use only

Instruments Capabilities

Our State of art facility is located in Industrial Area of Noida (NCR) . The lab / research facility is Total : 6000 Sq Feet

Affymatrix & Agilent Microarray Platform	Gene Expression Studies, Biomarker, Sequencing
Real Time PCR (ABI)	Gene Expression, Sequence Detection
PCR (ABI, Biorad , Eurofins) - 5 in numbers	Amplification of nucleic acids
Bioanalyser & Spectrophotometer	Quantification of Nucleic Acids
Gel Documentation System	Visualisation of Nucleic Acids, PCR Products etc.
Electrophoresis & Power Supply (Biorad) - 7 Sets	Separation of Nucleic Acids & Other Arrays
DNA Concentrator (Thermo Speedvac)	Nucleic Acid Extraction
Centrifuge, High Speed Centrifuge - 8 Nos	Sample Preparation
PCR Station and other accessories	

Biorad Profinia Affinity Chromatography	Affinity Chromatography - IMAC, GST, Antibody
Biorad Biologic Low Pressure Chromatography	Size Exclusion, Ion Exchange, Affinity etc.
Preparative HPLC (Thermo) , Agilent 1100	Bulk Protein Purification & Analysis
GE Amersham 2-D Electrophoresis System	Protein Characterisation
Immunoblot, SDS-PAGE , Biorad HV Powerpac	Visualisation of Nucleic Acids, PCR Products etc.
Mass Spectrometry , ELISA, Immunoassay	Protein Identification
Cryo Preservation Facility & Common Facility	Sample Storage & Preparation

Agilent HPLC System - PDA, FLD & ECD Detector	Separation and analysis of molecules
Agilent GC with FID & FPD Detectors	Separation and analysis of molecules
Thermo Prep HPLC with Dual Pump & UV-Vis	Bulk Purification & Analysis
Shimadzu GC with FID & NPD Detector	Separation and analysis of molecules
Triple Quad GC-MS System (Agilent)	Analysis of Semi Volatile & Volatile Compound
LC-MS-MS (API Sciex)	Analysis of Non Volatile Compound
Varian Carry Spectrophotometer	Analytical Tool for various purpose
Thermo Helios Spectrophotometer	Analytical Tool for various purpose
Vacuum Rotary Evaporator (Buchi)	Sample Preparation

Other Analytical Chemistry Equipments :

Refractometer , Flame Photometer (Toshniwal), Karl Fisher Titrator (Sistrionics), Potentiometer, Polarimeter , Tintometer ,Viscometer , Kjeldahl Distillation Unit , Kjeldahl Digestion Unit , Ion Selective for Fluoride Analysis (Thermo Orion) , Nephelometer , Soxhlet Extraction , Rotatory Vaccum Evaporator with chiller , etc.



Microbiology & Cell Culture Facility : Vertical Laminar Air Flow (4x2x2) , Horizontal Laminar Air Flow (2x2x2) B.O.D. Incubator (Julabo) , CO₂ Incubator (Jauan) , Orbital Incubator Shaker, UV Chamber , Incubator, Colony Counter , Colorimeter , Muffle Furnace , Hot Air Oven , Desiccators, Binocular Microscopes and , Lypholizer

Biochemistry / Organic Synthesis Chemistry Lab : Spectrophotometer (Thermo Heleus Alpha) , Analytical Balance (Sartorius) , Ph Meter (Thermo Orion) , Ion Selective (Thermo Orion) , Conductivity Meter (Thermo Orion) , Dissolved Oxygen Meter (Thermo Orion) , Turbidity Meter, Autoclaves, Hot Air Oven , Hot Plate , Magnetic Stirrers , Pipette Washer , Shaking Machine , Water Bath , Colorimeter , Flame Photometer , etc.

Lab Water Purification : Millipore Milli Q System

Clinical Biology Lab : Haematology Analyser , Automatic Immunoassay, Haematology HPLC Biorad Variant II



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