



Industry Ready Training Forensic Science



Get Certificate



On Time Training



100 % Hands on learning







- +91-9891179928 (WhatsApp Only)
- allelelifesciences@gmail.com
- www.allelelifesciences.com





OUR PEDAGOGY

Our training programs are specially designed for the betterment of students career to help them capture knowledge on emerging technologies and to improve skills for Forensic Biology, Forensic Chemistry and Toxicology.



WHY TRAINING?

One of the main reasons why freshers find it difficult to get employment in the industry is the lack of hands-on experience. Our mission to get students industry-ready in their domain.

WHO WILL BE BENEFITED

- · Career in Forensic or Analytical **Chemistry Lab**
- · You my consider as Pre Ph.D. Program

DURATION & FEE:

- 3 Months
- INR 25,000

HANDS ON EXPERIENCE ON **MAJOR TOOL & TECHNIQUES:**

- · Nucleic Acid Extraction Techniques, PCR & Real Time PCR Analysis, STR Analysis, VNTR Analysis, STR by dHPLC **Analysis**
- · Forensic sample extraction techniques, Chemical Titrations, Spectrophotometric Analysis. Analysis by FPLC, Ion Exchange, Affinity Chromatography, Microplate Assay, ELISA, Immuno Fluorescence Detection by HPLC-FLD
- · HPLC PDA Analysis , TLC Analysis and other Forensic Analytical Procedures
- · Gas Chromatography Analysis of volatile or semi volatile compounds of forensic samples.

FORENSIC DNA TECHNOLOGY

Basics of Forensic, DNA Evidence & DNA Extraction

Unit 1: Lab safety and Forensic Procedures , Chemical & Reagent Preparation

Unit 2: Preparation of Extract from Bloodstains, Soft Tissues Precipitin Tube Method

Unit 3: Double Diffusion, Cross Over Electrophoresis & Staining

Unit 4: Recovery of High-Molecular-Weight DNA and Forensic Specimens

Unit 5: DNA extraction from Hair



High Molecular Weight DNA & RNA Extraction

Unit 6: DNA extraction from Cigarette Butts & Postage Stamp

Unit 7: DNA recovery from dried blood sample

Unit 8: Mitochondrial DNA extraction of forensic sample

Unit 9: RNA recovery from blood sample Unit 10: First Strand cDNA Synthesis



Minisatellites or Variable Number Tandem Repeats (VNTRs)

Unit 11: Basics of PCR, Optimisation & Setup for forensic application

Unit 12: Digestion of DNA with a restriction endonuclease

Unit 13: Southern Blot Analysis & Hybridization

Unit 14: VNTRs Analysis - Phase I

Unit 15: VNTRs Analysis - Phase II



Single Nucleotide Polymorphisms (SNPs) Analysis

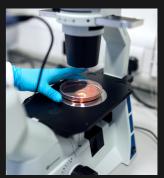
Unit 16: Procedure for genotyping single nucleotide polymorphisms - Phase I

Unit 17: Procedure for genotyping single nucleotide polymorphisms - Phase II

Unit 18: Total RNA extraction & mRNA Synthesis

Unit 19: First Strand cDNA Synthesis

Unit 20: SNP Analysis by Real Time PCR



Forensic DNA Phenotyping & Karyotyping

Unit 21: Data Analysis of Real Time PCR for SNP Analysis

Unit 22: SNP analysis by HPLC (PCR Product)

Unit 23: Forensic DNA Phenotyping

Unit 24: Y Chromosome analysis by Karyotyping - Phase I

Unit 25: Y Chromosome analysis by Karyotyping - Phase II



FORENSIC CHEMISTRY

Basics of Techniques required in Forensic Chemistry

Unit 26: Lab safety and Forensic Procedures, Chemical & Reagent Preparation

Unit 27: Chemical Analysis Procedures - Titrations, Viscosity, Refractive Index etc

Unit 28: Determination and basics of Spectrophotometry

Unit 29: Determination by Thin Layer Chromatography

Unit 30: Determination by High Performance Liquid Chromatography & Gas

Chromatography



Unit 31: Detection and estimation of cement in crime cases

Unit 32: Determination of mortar in crime cases

Unit 33: Determination of concrete in crime cases

Unit 34: Test of Gold Polish in Cheating Cases

Unit 35: Test For Fake Silver in cheating cases

Analysis of Fat & Oils

Unit 36: Analysis of Ground Nut & Sesame Oil

Unit 37: Analysis of Argemone oil in edible oils

Unit 38: Analysis of Mineral Oil in edible oils

Unit 39: Detection of rancidity in edible oil

Unit 40: Detection of acid & colour in edible oil

Analysis of Trap Cases & Drug Analysis

Unit 41: Test of Phenolphthalein in Trap cases - Basic chemical method

Unit 42: Test of Phenolphthalein by advance techniques

Unit 43: Analysis of Anthracene

Unit 44: Analysis of alcohol in liquors/drinks

Unit 45: Determination of drug with HPLC analysis

ANALYSIS OF ALCOHOL IN LIQUORS/DRINKS

Unit 46: Qualitative Analysis of Liquor

Unit 47: Test for Methanol

Unit 48: Quantitative Analysis of Liquor

Unit 49: Preparation of method for Gas Chromatography

Unit 50: Analysis of sample by Gas Chromatography











FORENSIC TOXICOLOGY

Techniques required in Forensic Toxicology

Unit 51: Lab safety and Forensic Toxicology Procedures

Unit 52: Microscopic examination of leaves

Unit 53: Analytical procedure of THC (Sigma Aldrich)

Unit 54: Analysis of THC by Thin Layer Chromatography

Unit 55: Determination of THC with High Performance Liquid Chromatography



Solvent Extraction, Dialysis and Ion Exchange Chromatography

Unit 56: Classification of poison & poisoning, factors affecting the intensity, diagnosis and medico legal aspects of cases.

Unit 57: Solvent Extraction in Forensic Toxicology

Unit 58: Dialysis for Forensic analysis

Unit 59: Ion Exchange Chromatography

Unit 60: Solid Phase Micro Extraction of Forensic Sample



Extraction of Toxic compound in Forensic Matrices

Unit 61: Extraction of Pesticides in Urine & Blood

Unit 62: Extraction of Pesticides in Fruits & Vegetables

Unit 63: Extraction of Drugs and Poisons of Plant Origin in Biological Matrices

Unit 64: Solid Phase Extraction of Drugs from Urine

Unit 65: Cleanup using Alumina and Silica Column



Analysis of Forensic Toxicology Samples

Unit 66: Analysis of Plant toxicants by different techniques

Unit 67: Analysis of Plant Pesticide with analytical techniques

Unit 68: Analysis of toxic compound in Urine sample

Unit 69: Analysis of toxic compound in blood

Unit 70: Analysis in tissue sample



Cost of Training: INR 25,000 / -

Duration: Three Months





Registration Form |

Address Office:

A: C-59, Sector-10, Industrial Area, Noida, Uttar Pradesh, India - 201301

P: +91-9891179928

E: info@allelelifesciences.com



PERSONAL INFORMATION

Full Name :		
Address:		
Nationality :	Institution (If Any)	
Phone:	Email :	
Name of Training :		

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 Rs 1000/- deposited is completely non refundable.
- 3. I will deposit the service charges as decided by the company in brochure at the time of joining date of training program.
- 4. Students have to bear their own boarding/lodging /conveyance charges.
- 5. Trainees will maintain adequate discipline & lab saftey inside the lab premises.
- 6. Company will not be responsible for any medical, legal issues during the internship tenure.

Declaration

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

Pay Registration Fee for confirmation of seat for training program. Send the copy of the form, payment detail and any identity proof at : info@allelelifesciences.com



allelelifesciences@upi

Trainee Signature

THANK YOU FOR REGISTRATION

We will send your training confirmation letter at your Email ID given in the registration form

More Information:



CONTACT US -

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OUR SERVICES

GENOMICS SERVICES

- Sequencing Services
- PCR & Real Time PCR Services
- · Gene Cloning
- · Genotyping Services
- Epigenetic Analysis
- Microbiome Analysis
- Nutrigenomics Analysis
- Plant Genomics

PROTEIN CHEMISTRY

- Protein Purification
- Protein Analysis
- Peptide Synthesis
- Peptide Modification
- Peptide Labelling
- Antibody Purification
- Enzyme Production
- Enzyme Analysis

BIOLOGICAL ASSAY

- In-Vitro Cell Assay
- Microbial Assay
- Antioxidant Assay
- Oxidative Stress Assay
- Toxicity Assay
- Nanotechnology Assay
- Bio-Chemical Assay
- Immunology Assay

ANALYTICAL SERVICES

- HPLC Analysis
- GC Analysis
- Mass Spectrometry Analysis
- Vitamin Analysis
- GMO Analysis
- Amino Acid Analysis
- Allergen Analysis
- Trace Analysis

OUR PRODUCTS

- Molecular Biology Reagents
- Biochemical Analysis
- Protein Analysis Reagents
- Cell Culture Products
- Plant Research Products
- Lab Equipment