



Training in Proteomics & Genomics

Key Features:

- Hands on Experience on genomics and proteomics techniques
- Hands on experience on latest and widely used techniques of Life Science world
- Modules are designed to fulfill the requirement of biotech / Pharma Industries
- Training is most suitable to enter into R & D
- Job Oriented

Module 1: Isolation and Purification of DNA & RNA

- Isolation of Plasmid DNA from Plants , Microorganism and Blood
- Purification of DNA from Plants , Microorganism and Blood
- Isolation and Purification of Genomic DNA
- Isolation and Purification of RNA

Module II: Estimation of qualitative and quantitative analysis of nucleic acids

Module III: Molecular Cloning (Conjugation , transformation and ligation)

Module IV: Screening of Clones

Module V: Amplification and quantization of DNA through PCR

Module VI: Southern , Western & Northern Blotting

Module VII: SNP Typing (Microarray Technology)

Module VIII: Plant Genetic Engineering

Module IX: Screening of Plants

Module X: Introduction of UV Visible Spectropotometer

- Analysis of protein
- Estimation of total protein concentration through UV-Vis : BCA Method

Module XI: Introduction of HPLC

- Analytical Method Validation of HPLC
- Volumetric Solution Preparation of HPLC
- Detection and Analysis of Assay From HPLC
- Purity And Impurity Analysis From HPLC

Module XII: Purification of Protein through Gel Filtration Chromatography

Module XIII: Separation of Protein through SDS-PAGE: Reducing & Non Reducing

Module XIV: Western blot (immunoblot). Technique for detection of protein of interest in a mixture of proteins

Module XV: Patent Law & Procedures , Patent Searching , Patent Landscaping , FTO Analysis

Duration: Six Months

Eligibility: Ph.D / M.Tech/M.Sc/B.Tech/B.Pharm/M.Pharm

Service Charges: Rs 40,000/-