## Kind Attn: ILS provides a platform to all outstanding candidates who are doing Project/Dissertation work in our lab & help them to publish their papers in National & International Scientific Journals based on their findings of Projects.

Module PAA (Pharmacy): “Hands-on Industrial Training with State of Art Lectures in Pharmaceutical & Analytical Analysis” (Program Code: CRT-PAA).

# Techniques Details: (For Duration of 6 Weeks; Fee: 8500/- + GST)

|  |  |
| --- | --- |
| 1 | General and Safety Instructions. |
| 2 | Good Laboratory Practices. |
| 3 | Principle and Handling of Laboratory Equipments. |
| 4 | Basics of Calculations, Weighing and Measurements. |
| 5 | Preparation of Reagents, Stock Solutions & Methods of Labelling and Storage. |
| 6 | Sterilization Techniques (Chemical and Physical Sterilization). |
| 7 | Solvent and Buffer Preparation |
| 8 | Culture Media Preparation. |

|  |  |
| --- | --- |
| 9 | Antibiotics Sensitivity Test. |
| 10 | Minimum Inhibitory Concentration (MIC) Test. |
| 11 | Microbial Assay of Antibiotics and Vitamins. |
| 12 | Extraction of Bioactive Compound by Solvent Extraction Method. |
| 13 | IC50 Calculations. |
| 14 | Formation of Herbal Drugs. |
| 15 | Phytochemical Analysis. |
| 16 | Antibacterial Property of Phytochemicals. |
| 17 | Analysis of Normal and Abnormal Urine Sample. |
| 18 | Protein Isolation & Purification. |
| 19 | SDS-PAGE. |
| 20 | Analysis of Protein by Bradford Test (Spectrophotometer/ Colorimeter). |
| 21 | Analysis of Protein by Lowry’s Test (Spectrophotometer/ Colorimeter). |
| 22 | Hemoglobin Estimation by Copper Sulphate Method. |
| 23 | Dialysis. |
| 24 | Immobilization – Enzyme/Yeast/Bacteria. |
| 25 | Formation of Crystals of Salts. |
| 26 | Determination of Angle of Repose. |
| 27 | Effect of pH on the Solubility of Drug. |
| 28 | Formation of Asprin. |
| 29 | Solvent Precipitation. |
| 30 | Paper Chromatography. |
| 31 | Column Chromatography. |
| 32 | Thin Layer Chromatography (TLC). |
| 33 | **High Performance Liquid Chromatography (HPLC)** |
| 33-A | Introduction to HPLC Components. |
| 33-B | Types of Pumps and Functions of their Components. |
| 33-C | Reservoirs and their Uses. |
| 33-D | Types of Injectors & their Functions. |
| 33-E | Types of Detectors & their Functions. |
| 33-F | Types of Mobile Phase to Separate the Compounds. |
| 33-G | Types of Stationary Phase to Separate the Compounds. |
| 33-H | Types of Column. |
| 33-I | Preparation of Mobile Phase to Separate the Compounds. |
| 33-J | Method Development for the Separation of Unknown Compounds. |
| 33-K | How to Select the Mobile Phase. |
| 33-L | How to Select the Stationary Phase. |
| 33-M | How to Select the Flow Rate. |
| 33-N | How to Select the Gradient & Isocratic Methods. |
| 33-O | How to Select the Sample Volume. |
| 33-P | How to Select the Wave Lengths or Detectors. |
| 34 | Discussions. |

**\*\*\*Thanks\*\*\***