SYLLABUS : Junior Scientific Assistant (Finger Print) in FSL

CHEMISTRY:

Concepts of Chemistry, States of Matter, Types of Intermolecular Forces, Classification of Matter into Mixture and Pure Substance, Properties of Matter, Structure of Atoms and Bond, Thomason's Modal of Atoms, Rutherford's Modal, Bohr's Modal of Atom, Electron Configuration, Characterisation of Elements as Metal and Non-Metals, Nature and Behaviour of Acids, Base and Salts, Introduction to Spectroscopy, its Types, Principles and Applications in Forensic Science, Introduction to Chromatography – Rf value, Adsorption, Partitioning, Types of Chromatography and their Application in Forensic Science.

PHYSICS:

Basic Concepts of Physics, Physical properties, Laws of Motion, Force, Gravitation, Work and Energy, Nature of Sound and its Propagation in Various Media, Reflection of Sound, Light as Electromagnetic Radiations and its Properties, Optics, Lenses, its Types and Application in Daily Life, Mirrors, Introduction of Microscopy - Numerical aperture, Resolving Power, Image Formation, and Types of Microscopes, its Types, Principles and Application in Forensic Science.

FORENSIC SCIENCE:

Introduction to Forensic Science, Principles of Forensic Science, Crime Scene Management, Search Methods, Recording, Collection, Preservation, and Packaging of Physical Evidence, Basics of Photography, Camera & its Functioning and Relation of Light with Camera; Principles of Handwriting Examination, Handling of Documents, Recording of Documents, Soil Examination, Tool Mark Examination, Stature Identification, Forensic Odontology, Forensic examination of Body Fluids like Blood, Semen, Saliva & Urine; Experts Testimony in courts, Ethics and Laws of Forensic Science, New criminal Laws/sections Related to Forensic Science; History, Principles and Types of Fingerprints, Ridge Characteristics, Classification System and Pattern of finger prints; Palm Prints, Foot Prints, Structure of Skin, Sweat Glands, Composition of Sweat, Development of Latent Fingerprints : Physical, Chemical and Optical method, Analysis and Comparison of Finger Prints, Ridge Counting and Tracing, AFIS & NAFIS and its Functioning, Indian Judicial System and its Hierarchy.