

Information Brochure

All India
Forensic Science
Entrance Test

AIFSET 2025

All India Forensic Science Entrance Test



To Apply please visit:

www.aifset.com

or scan the QR from any scanner app.

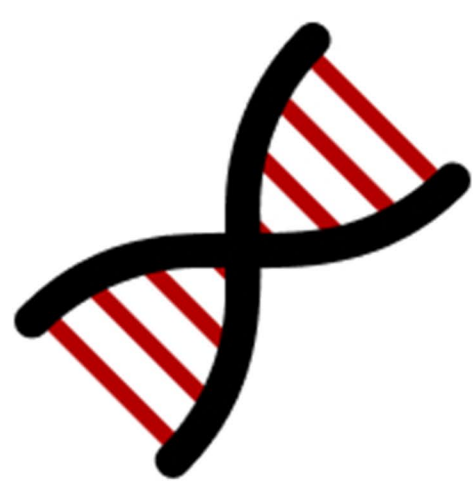
The All India Forensic Science Entrance Test (AIFSET-2025) is a national-level entrance test to enroll in the forensic science courses of its various participating universities. Candidates who are interested in pursuing a career in this field can apply to the course through this examination. The duration of the course is three years for the Bachelor of Science program & two years for the Master of Science program.



B.Sc Forensic Science



is a three-year undergraduate program for individuals who are interested in pursuing a career in Forensic Science. The course mainly trains students to understand and analyze a criminal activity and/or a crime scene. Forensic Science is mostly a crime-scene based science, but graduates of forensic science are also consulted in civil cases such as proving the validity of a signature on a will or an important document. Professionals in forensic sciences are also consulted for any issue where the people involved could be cutting corners or performing illegal activities.



Field Science

include crime scenes investigation which incorporates areas such as fire and explosion scenes and secret drug laboratories.

Laboratory Data Science

includes chemistry, biology, toxicology, ballistics, fingerprints, suspected documents, and marks & impressions.

Medical Data Science

includes forensic pathology, psychiatry, psychology, forensic medicine and ontology.

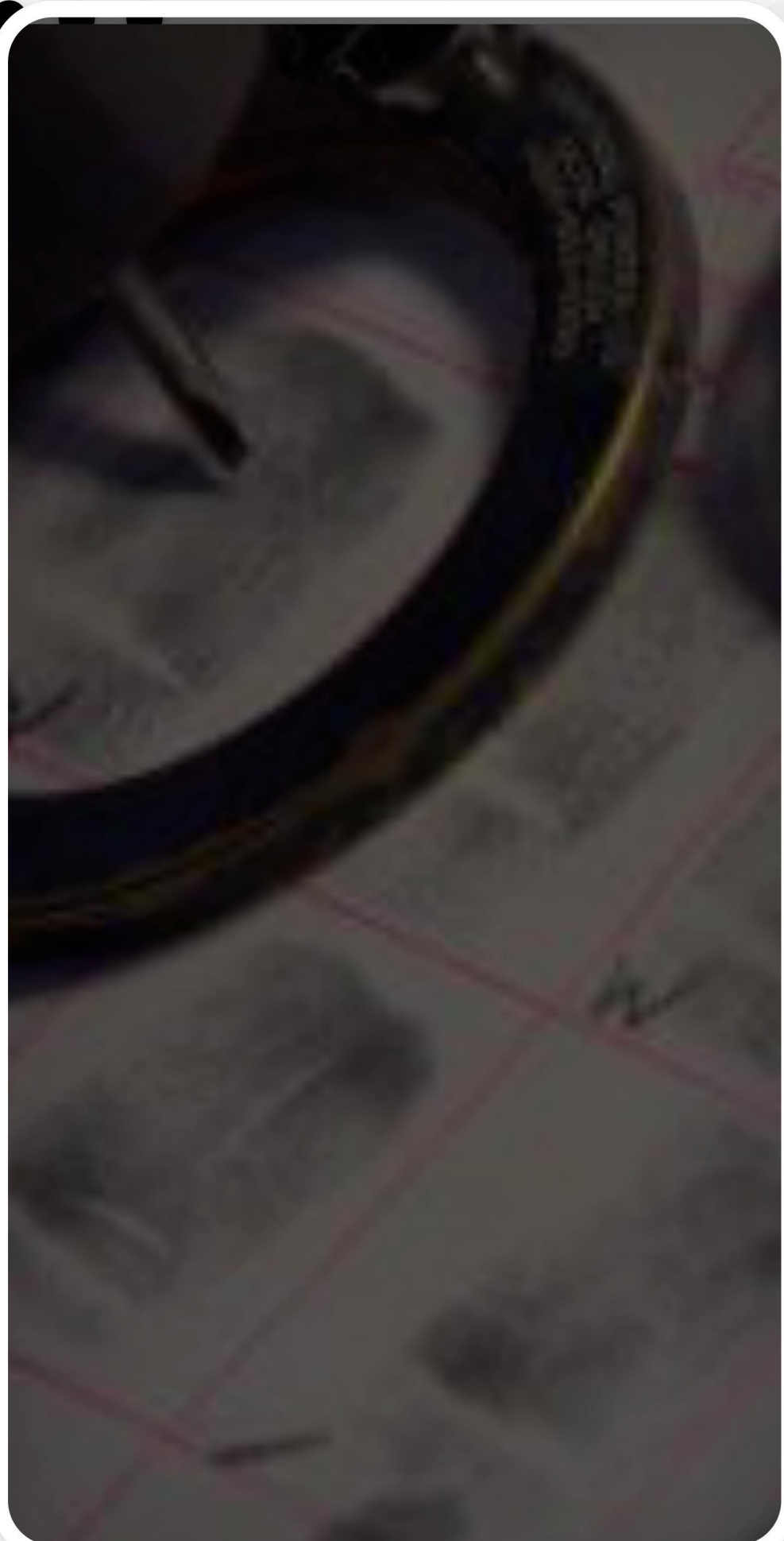


M.Sc Forensic Science

The Master of Science: Forensic Science course is a two-year undergraduate program for individuals who are interested in pursuing a career in Forensic Science. The course deals with the study of crime investigations. It provides training to students that include analyzing, identifying suspects through materials found on crime locations. It is a course that develops the students for the crime scene and makes them analyze and handle the required materials for the investigation of a crime scene. The postgraduate Forensic Science course consists of both core and elective subjects depending on the specialization sought.

Some common M.Sc Forensic Science subjects are Transport Phenomena, Chemical Engineering Computing, Advanced Thermodynamics, Chemical Reactor Engineering, and Design, etc.

Scope & Career in Forensic Sciences



Government Sector

Police Department, Crime Branches, CBI, CID, Forensic Science Laboratories, IB, Banks, Defense/Army, Courts, Quality Control Bureau, Narcotics Dept. , Universities, Hospitals, Organisations etc.

Private Sector

Detective Agencies, Banks, Insurance Companies, Universities, Hospitals, Security Services Agencies, Helpful to lawyers/Advocates, Law Firms, Private Companies, Own Private Practice etc.



Job Titles / Posts

Forensic Expert, Forensic Scientist, Forensic Investigator, Crime Scene Investigator, Handwriting Expert, Document Expert, Document Examiner, Fraud Examiner, Forensic Analyst, Scientific Officer, Security Expert, Forensic Consultant, Detective, Investigating Officer, Teacher/ Professor, Crime Reporter, Forensic Engineer, Forensic Psychologis, Fingerprint Expert, Law Consultant,

- Government Examiner, Instructor, Genetics Expert,
- Environment Analyst, Technicians, Forensic Medical
- Examiners, Technician etc.

Facts & Figures

According to crime statistics of “Bureau of Police Research and Development (BPRD)”- A total of 19,89,673 IPC crimes were reported in the country as against 18,78,293, showing an increase of 5.9 percent.

According to Hindustan Times – Over three million cases are pending in India’s 21 high courts, and an astounding 26.3 million cases are pending in subordinate courts across the country.

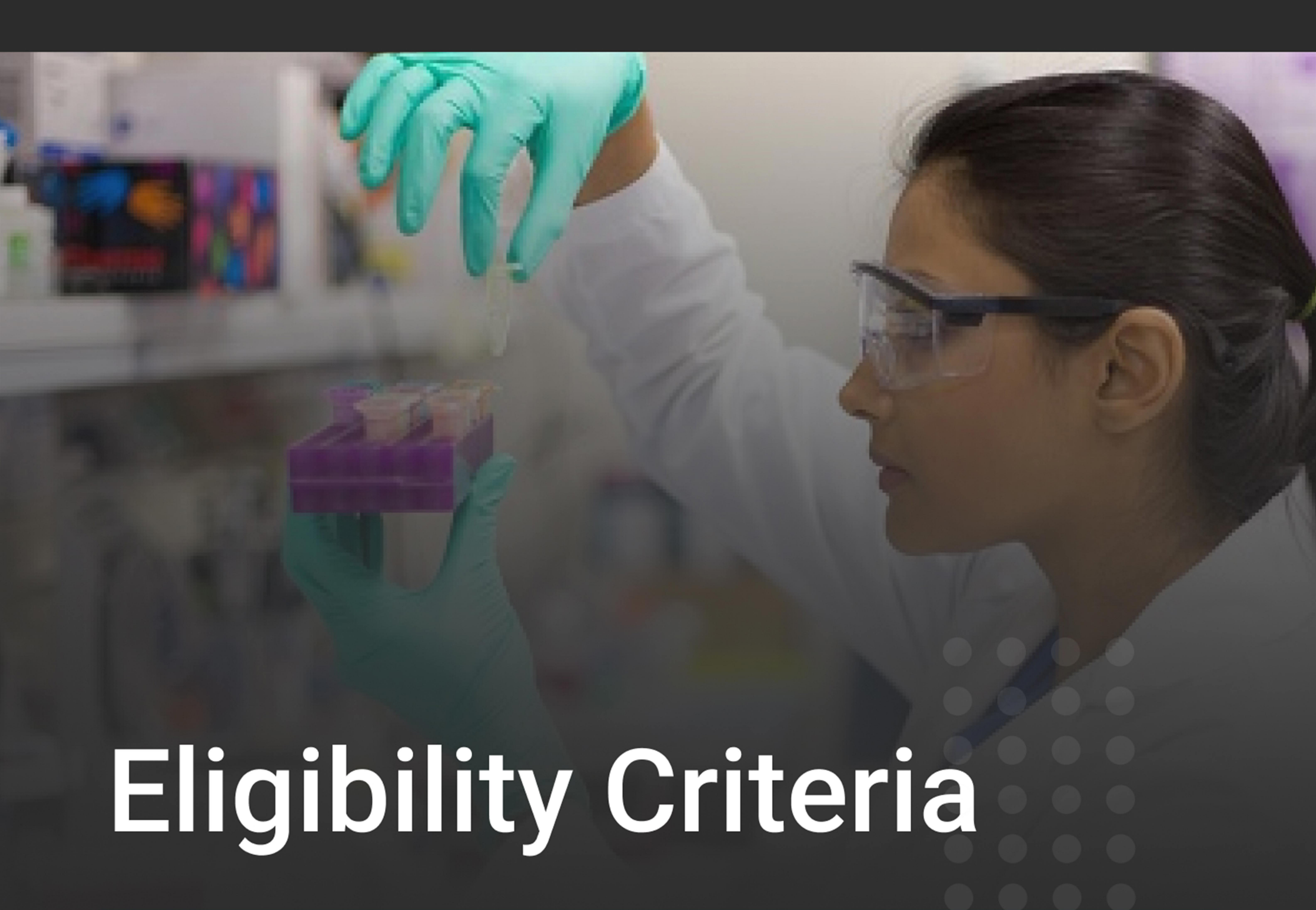
At the same time, there are almost a quarter million under-trials languishing in jails across the country. Of these, some 2,069 have been in jail for more than five years, even as their guilt or innocence is yet to be ascertained.

There are lot of cases which need not always go to the police or courts. Most experts agree that India faces an acute shortage of trained Forensic Experts and Scientists in many Forensic Areas and Crime Investigation.

Forensic science is an applied science having more than 27 sub branches. This subject is concerned with application of scientific principles / techniques for the crime investigation. Any science used for the purposes of the law is a forensic science.

According to crime statistics of “Bureau of Police Research and Development (BPRD)”- A total of 19,89,673 IPC crimes were reported in the country as against 18,78,293, showing an increase of 5.9 percent.

As there is increase in the rate of organized crime the task of Forensic scientists is becoming more tough, challenging and adventurous. Forensic science is a highly remunerative career options for youngsters.



Eligibility Criteria

B.Sc Forensic Science

The candidates must have a minimum education qualification of higher secondary (10+2) or any equivalent education with physics, chemistry, biology, and/or mathematics as the main subjects with a minimum aggregate of 45% or should be appearing for the same in 2025.

To appear for AIFSET 2025, the candidate must satisfy the minimum eligibility criteria. If the candidate is found to not satisfy the criteria, then his/her candidature can be cancelled at any time during the admission process.

M.Sc Forensic Science

The candidates must have a bachelor degree or any equivalent education in science with relevant subjects with a minimum aggregate of 45% or should be appearing for the same in 2025.

To appear for AIFSET 2025, the candidate must satisfy the minimum eligibility criteria. If the candidate is found to not satisfy the criteria, then his/her candidature can be cancelled at any time during the admission process.

Application Fee

Interested candidates are required to pay a non-refundable application fee of INR 2000/- to be able to take up the examination. The candidature of an individual will be confirmed only after the payment of the application fee.

The application fee can be paid through the payment portal on the official website www.aifset.com through any online mode of payment such as debit/credit card, or internet banking.

B.Sc Forensic Science

Unit I

Living And Nonliving
Genetic Basis Of Inheritance
Origin And Evolution Of Life
Human Disorders
Animal Physiology

Unit III

Units And Measurements
Mechanics
Heat Transfer
Light And Sound
Electricity And Magnetism
Modern Physics

Unit V

Forensic Science: Definition And History
Definition And Types Of Crime
Police Organization
Crime Scene
General Awareness And GK

Unit II

Cell Structure And Function
Plant Physiology
Reproduction In Plants
Ecology And Ecosystems

Unit IV

The Atomic Structure
Chemical Bonding
States Of Matter
Mixtures, Solutions And Solubility
The Periodic Table
Water And Organic Compounds In
The Environment

M.Sc Forensic Science

History, Development And Scope Of Forensic Science In India

Basic Principles Of Forensic Science And Its Significance

Organization And Functioning Of State And Central Forensic Science Laboratories

Ethics In Forensic Science

Different Searching Methods For Locating Physical Evidence At The Scene Of Crime

Historical Development Of The Police System In India.

Types And, Protection Of Scene Of Crime

Crime Scene Documentation- Note Taking, Videography, Photography And.

Sketching Methods, Importance Of Photography, General Guidelines, Admissibility In Court, Various Forms Such As Videography.

Guidelines For Investigator, Interview Of Witness, Interrogation Of Suspect

Identification Of A Person: Through All Factors In Fixing Identity, Post-Mortem Examination

Meaning & Modes Of Death, And Their Characteristics, Signs Of Death And Post-Mortem Changes.

Wounds And Their Characteristics, Injuries Due To Heat, Lighting, Electricity And Radiation, Firearm Injuries,Differentiation Between Ante-Mortem And Post-Mortem Wounds.

General Chemistry : Photochemistry, Organic Chemistry, InOrganic Chemistry

General Understanding Of: Distillations, Sublimation, Crystallization, Solvent Extraction.

Fingerprints, Documents, Handwriting & Other Impressions

Description And Function Of The Human Digestive System, Respiratory System, Circulatory System. Nervous System. Reproductive System. Structure, Composition And Examination Of Biological Fluids

Hair And Fiber, Forensic Botany, Structure Of DNA, Polymorphism In DNA, General Idea About RFLP And PCR Methods Of Biological Fluid Analysis, Merits And Demerits Of RFLP And PCR Advanced Methods For Forensic DNA Examination Etc

Elements Of Crime Scene Management, Basic Principles For Physical Evidence And Reconstruction (Recognition, Identification, Individualization And Reconstruction), Stages In Reconstruction,Types Of Reconstruction, Pattern Evidence

Poison And Types Of Poisoning, Action Of Poison, Factors Modifying The Action If Poison,Extraction, Isolation And Clean-Up Procedures- For Non-Volatile Organic Poison, Volatile Poisons, Toxic Cations Or Metallic Poisons, Toxic Anions From Viscera, Drugs, Botanical Evidence, Biological Evidence Etc.

General Idea And Examination Of Opium, Semi - Synthetic Opiates, Cannabis Drugs Such As Bhang, Ganja And Charas, LSD And Amphetamine, Important Benzodiazepines, Phenothiazines, Barbiturates Etc. Animal Poisons Like Snake, Cantharides, Bees, Wasp Etc.

- **CRIME SCENE MANAGEMENT AND RECONSTRUCTION**

Elements Of Crime Scene Management: - Information Management, Technology Management, Man-Power Management & Logistic Management. Introduction To Crime Scene Reconstruction, Nature Of Reconstruction, Basic Principles For Physical Evidence And Reconstruction (Recognition, Identification, Individualization And Reconstruction), Stages In Reconstruction, Types Of Reconstruction, Pattern Evidence In Reconstruction (Bloodstain Pattern Analysis For Reconstruction, Glass Fracture Patterns, Fire Burn Patterns, Tire And Skid Mark Patterns), Writing A Reconstruction Report.

- **FINGER PRINTS, DOCUMENTS AND OTHER IMPRESSIONS**

Fingerprints: History, Types Of Fingerprints, Type Of FingerPrint Patterns, Different Classifications, Location And Preservation Of Fingerprints, Development Of Latent Prints By Physical And Chemical Methods, Matching Of Fingerprints.

Documents: Definition Of Questioned Documents, Types Of Documents, Types Of Writing Instruments Their Characteristics And Examination, Paper And Its Examination, Basic Tools Needed For Forensic Document Examination- Ultraviolet, Visible, Infrared, And Fluorescence Spectroscopy, Photomicrography,, Microphotography, Visible Spectral Comparator, Electrostatic Detection Apparatus.

Hand Writing: Hand Writing And Its Characteristics, Factors Affecting Hand Writing, Samples For Comparison, Comparison Of Hand Writings, Disguised And Indented Writings And Their Detection, Typed And Computer Generated Documents, Their Comparison, Alteration In Documents And Their Detection, Foot & Shoe Prints, Methods Of Their Preservation And Examination, Tyre Marks And Track Marks And Their Examination.

- **FORENSIC BIOLOGY AND SEROLOGY**

Brief Description And Function Of The Human Digestive System, Respiratory System, Circulatory System. Nervous System. Reproductive System. Structure, Composition And Examination Of Biological Fluids Like- Blood And Bloodstains,Seminal Stains, Saliva, Urine, Pus, Feces Etc

Hair And Fiber: Hair Anatomy, Collection, Examination Of Hairs From Animal And Human Origin. Types OfFiber And Their Properties, Examination Etc.

Forensic Botany: Introduction, Nature & Scope, Woods & Their Identification And Matching, Diatoms And Their Forensic Significance In Drowning Cases, Study And Identification Of Pollen Grains.

D N A: Structure Of DNA, Polymorphism In DNA, General Idea About RFLP And PCR Methods Of Biological Fluid Analysis, Merits And Demerits Of RFLP And PCR Advanced Methods For Forensic DNA Examination Etc.

- **CHEMICAL SEPARATION AND INSTRUMENTAL TECHNIQUES**

General Understanding Of: Distillations, Sublimation, Crystallization, Solvent Extraction.

Chromatographic Techniques: Definition, Different Classification Like- According To Mode, Principle, Stationary Phase, Etc., Brief Idea About Column Chromatography, Paper Chromatography, Thin Layer Chromatography, Gas Liquid Chromatography, Liquid Chromatography, Hyphenated Chromatography As- LC-MS, GG-MS Etc.

Electromagnetic Spectrum &. Spectroscopic Methods - Principle, Apparatus, Procedure & Importance: Emission Spectroscopy, Atomic Absorption Spectroscopy, UV Spectroscopy, Electron Spectroscopy, Raman Spectroscopy, IR & FTIR Spectroscopy.

General Idea About: Neutron Activation Analysis, Mass Spectrometry.

Electrophoresis- Principle, Types, Equipment And Processing, Immune Electrophoresis, Analysis Of Proteins By Electrophoresis & Their Detection.

- **FORENSIC MEDICINE**

Meaning And Scope, Identification Of A Person: Through All Factors In Fixing Identity, Post-Mortem Examination (Autopsy) (Types Of Autopsy, Objectives, Procedures), Meaning & Modes Of Death, And Their Characteristics, Signs Of Death And Post-Mortem Changes. Wounds And Their Characteristics, Injuries Due To Heat, Lighting, Electricity And Radiation, Firearm Injuries,Differentiation Between Ante-Mortem & Post-Mortem Wounds.

- **FORENSIC TOXICOLOGY AND DRUG ANALYSIS**

Poison And Types Of Poisoning, Action Of Poison, Factors Modifying The Action If Poison,Extraction, Isolation And Clean-Up Procedures- For Non-Volatile Organic Poison, Volatile Poisons, Toxic Cations Or Metallic Poisons, Toxic Anions From Viscera, Drugs, Botanical Evidence,Biological Evidence Etc.

General Idea And Examination Of Opium, Semi - Synthetic Opiates, Cannabis Drugs Such As Bhang, Ganja And Charas, LSD And Amphetamine, Important Benzodiazepines, Phenothiazines, Barbiturates Etc. Animal Poisons Like Snake, Cantharides, Bees, Wasp Etc.

- **GENERAL CHEMISTRY**

Photochemistry- Interaction Of Radiation With Matter, Difference Between Thermal And Photochemical Processes, Laws Of Photochemistry, Grothus -Drapers Law, Stark - Einstein Law. Jablonski Diagram, Description Of Fluorescence, Phosphorescence, Nonradiative Processes, Quantum Yield, Photosensitized Reactions, Energy Transfer Processes Etc.

Organic Chemistry- Structure And Bonding: Hybridization, Bond Length And Bond Angles, Bond Energy, Localized And Delocalized Chemical Bond. Structure And Characteristics Of Alkane, Alkene, And Cycloalkane, Alcohol, Phenol, Ethers, Aldehyde, Ketone, Carboxylic Acid Etc.

Inorganic Chemistry- Trends In Periodic Table And Applications In Predicting And Explaining The Physical And Chemical Behaviors, Definitions Of Acid And Base, Classification Of Acids And Bases, Essential And Trace Elements In Biological Process, Metalloporphyrins With Special Reference To Haemoglobin, Types Of Magnetic Behaviors, Method Of Determining Magnetic Susceptibility, Spin Only Formula, L-S Coupling.

- **BASIC PHYSICS**

Physical Properties- Temperature, Weight And Mass, Density, Refractive Index, Diffraction, Polarization

Laws Of Motion- Motion In A Uniform Field, Centripetal Acceleration, Motion Under A Central Force

Basic Optics- Light As An Electromagnetic Wave, Interference Of Light, Principle Of Superposition, Two-Slit Interference, Michelson Interferometer And Its Application

Microscopy- Numerical Aperture And Resolving Power Of Microscopic Systems, How The Microscope Forms Images; Simple, Compound, Stereoscopic, Polarizing, Comparison,Fluorescent & Electron Microscopes



Participating Universities



Aditya Degree Colleges



**AJK College of Arts & Science,
Coimbatore, Tamil Nadu**



Anjaneya University, Chattisgarh



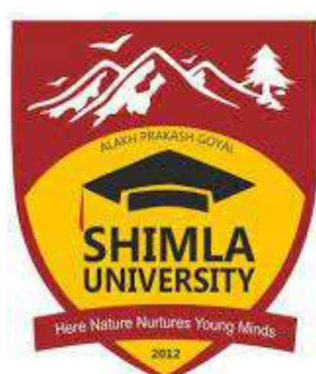
**Annai Fathima College of
Arts and Science**



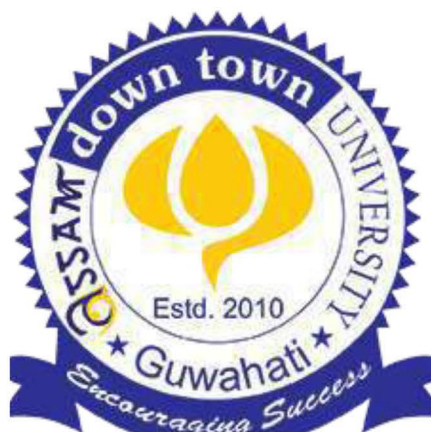
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Arunanchal Pradesh**



Apex University, Rajasthan



APG Shimla University, Shimla,
Himanchal Pradesh



Assam Down Town University



Bahra University, Shimla Hills



Centurion University of
Technology and Management



CEOA College of Arts & Sciences,
Madurai,Tamil Nadu



Dev Bhoomi University



Dolphin College, Punjab



Eklavya University



G. D. Goenka University, Gurgaon,
Haryana



G H Raison, University



Geeta University, Panipat



Graphic Era University,Dehradun
Uttrakhand



GRD Group of Colleges,Ropar, Punjab



Guru Kashi University, Bathinda,
Punjab



Himalayan University
Arunachal Pradesh



IIMT University, Meerut



Invertis University, Bareilly



ITM University, Madhya Pradesh



JECRC University, Jaipur



K.R.Mangalam University,Gurgaon,
Haryana



Kalinga University, Raipur, Chattisgarh



Mangalayan University, Aligarh



Mangalayan University, Jabalpur



MATS University, Raipur



Medi-Caps University



Mody University, Rajasthan



Om Sterling Global University



Parul University



PDM university ,Bahadurgarh,Delhi
NCR



Ravindranath tagore University,
Bhopal M.P



Rayat-Bahra University, Mohali



Renaissance University, M.P.



RR Institutions, Bangalore, Karnataka



SAGE University, Bhopal



Sandip University,Nashik



Sanskriti University, Uttar Pradesh



Sikkim Professional University



Sri Sri University Odisha



Starex University, Gurugram, Haryana



Teerthanker Mahaveer University



Usha Martin University



Venkateshwara Open University



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