

FACULTY OF PHYSICAL SCIENCES

BASIC FORENSIC SCIENCES

UNIT-I

General Forensic Science:

Forensic Science: Definition of Forensic Science, The Role of the Forensic Laboratory, History and Development of Forensic Science in India & Abroad, Pioneers in Forensic Science,

Forensic Evidences, Laws and Principles of Forensic Science: Law of Exchange (Locard), Law of Individuality, Law of Comparison, Law of Progressive Changes and Law of Probability, Branches of Forensic Science.

Admissibility of Forensic Evidence in Court: Admissibility of Expert Testimony and Evidence in Court, Frye and Daubert standards.

Forensic Report: Forensic Expert, Forensic Report, Court Testimony, Examination in chief, Cross Examination and Re-examination.

UNIT-II

Administration and Organizational Setup

Administration and Organizational Setup: DFSS, CFSL, GEQD, SFSL, RFSL, MFSL, FPB, NICFS, CDTS, NCRB, BPR&D, Qualifications and duties of Forensic Scientists

Academic centres of education and research: Indian and Academy of Forensic Science, Indian and Academy of Forensic Medicine, American Board of Forensic Odontology, Interpol and FBI, Australian Academy of Forensic Sciences.

Education and Employment systems of Forensic Science in India: Teaching Courses and Research fields in Forensic Science, Scope and jobs in Forensic Science.

UNIT-III

Criminology

Concept and definition of crime. Causes of crime. Social changes and crime. Aim and scope of criminology and criminal anthropology. Theory of criminal behavior. Organized crime and public disorder. Control and prevention of crime. Criminal profiling. Understanding modus operandi. Investigative strategy. Police's power of investigation. Filing of criminal charges.

UNIT-IV

Criminal Law

Forensic Laws: Definition and related Laws & Issues, Evidence in Enquiries and Trials, Expert Witness (CrPC. 291-93), Indian Evidence Act - Section 32, 45, 46, 47, 57, 58, 60, 73, 135, 136, 137, 138, 141. Offences against the person-Sections:- 299, 300, 302, 304B, 307, 309, 319, 320, 324, 326, 351, 354, 359, 362, 375 and 377. Offences against property- Sections:-378, 383, 390, 391, 405, 415, 420, 441, 463, 489A, 497, 499, 503 and 511. 489A, 497, 499, 503 and 511. Briefs of Information Technology IT Act, Narcotic Drugs & Psychotropic Substances Act, Drugs & Cosmetics Act, Explosive Substances Act, Dowry Prohibition Act, Prevention of Corruption Act, Arms Act, Wild Life Protection Act.

Reference books:

Reference Books:

1. Houck, M.M. & Siegel, JA; Fundamentals of Forensic Science, Academic Press, London, 2006.
2. Sharma, B.R., Forensic Science in Criminal Investigation & Trials, Universal Publishing Co., New Delhi, 2003.
3. Nanda B.B and Tewari, R.k. Forensic Science in India- A vision for the Twenty First Century, Select publisher, N. Delhi, 2001.
4. James, SH and Nordby, JJ, Forensic Science- An Introduction to Scientific and investigative Techniques, CRC Press, USA (2003).
5. J A Siegel, P.J Saukko (2000) Encyclopedia of Forensic Sciences Vol. I, II and III, Acad. Press, 2000.
6. Saferstein; Criminalistics- An Introduction of Forensic Science, Prentice Hall Inc, USA, 2007.
7. Indian Evidence Act.
8. Criminal Procedure code.
9. Indian Penal Code