

Government Institute of Forensic Science, Nagpur

Department of Forensic Science

P.G. Diploma in Forensic Science & Related Law

Course Title: Basics of Forensic Science & Crime Scene Management

Course Code: PGDF Paper-I

Level: PG

Course Objective: This course will cover:

- Criminal behaviour –causes and theories
- Role and inter relation between police, scientific officer and medico-legal officer.
- Expert testimony
- Basic fundamental on Forensic Science, and its organizational set-up in India.
- Skills of investigators to manage crime scene.

Student Learning Objectives: On completion of this course the students will be able to:

- **Identify:** Crime and criminal behaviour, wings of criminal justice system, development of Forensic Science, collection, preservation and evaluation of physical evidences.
- **Describe:** crime, criminal, criminology and its various elements, role of various units of judicial system, Basics of Forensic Science, its principles and need in current scenario, management of crime scene.
- **Differentiate:** Modus Operandi and Corpus Delicti, Laws and principles of Forensic Science.
- **Analyze:** Scope of Forensic Science.
- **Review:** Role and Importance of Forensic science in the process of investigation.

Pedagogy: The course will be taught in active-learning mode, incorporating lectures along with relevant case studies and sections, with the help of PowerPoint presentations, general discussions, and interactions.



Ashish Badiye
Head, Department of Forensic Science
Govt. Institute of Forensic Science, Nagpur

Government Institute of Forensic Science, Nagpur

Department of Forensic Science

Course Title: Forensic Science and its Application in Crime Investigation

Course Code: PGDF Paper-II

Level: PG

Course Objective: This course will cover:

- Discuss the nature, types of physical evidences.
- Determine the sex, age and stature from physical evidences.
- Basic principles of handwriting examination.
- Brief about small coins (offence) Act 1971, Standards of Weight and Measures Act 1976.
- Idea regarding Forensic Ballistics, types of firearms, ammunition, bullets, Factory made weapons, improvised weapons, Nature of injuries from firearm, range and time of firing.
- Brief idea on Fire, arson and debris analysis.

Student Learning Objectives: On completion of this course the students will be able to:

- **Identify**: Collection, handling preservation and evaluation of all possible evidences at the scene of crime.
- **Describe**: Nature, types and significance of physical evidences.
- **Differentiate**: Types of forgery, anti-mortem and post- mortem wounds, anti-mortem and post- mortem injury. Homemade and improvised vehicle
- **Analyze**: Various evidences, Firearms and ammunition, Handwriting and signature analysis, and explosives.
- **Review**: Role of evidences in solving crime.

Pedagogy: The course will be educated in active-learning mode, incorporating lecture with the help of PowerPoint presentations, general discussions, and interactions.



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Course Title: Forensic Medicine and the Laws

Course Code: PGDF Paper-III

Level: PG

Course Objective: This course will cover:

- Brief on current scenario of medical jurisprudence in India.
- Throw light on medico-legal aspects of Death.
- Sections deal with natural and unnatural sexual offences.
- discuss elements of various important sections

Student Learning Objectives: On completion of this course the students will be able to:

- **Identify:** Current situation of medical jurisprudence, time and cause of death, relevant sections
- **Describe:** Nature, types and significance of physical evidences.
- **Differentiate:** Types of forgery, anti-mortem and post- mortem wounds, anti-mortem and post- mortem injury. Homemade and improvised vehicle
- **Analyze:** Explosives, skull, bones, teeth for personal identification.
- **Review:** Medico-legal aspects of Forensic medicine

Pedagogy: The course will be educated with incorporating lecture with the help of PowerPoint presentations, general discussions, and interactions and explain some aspects with the help of virtual post-mortem.



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Course Title: Recent Advances in Forensic Science and the Laws

Course Code: PGDF Paper-IV

Level: PG

Course Objective: This course will cover:

- Latest on types of cyber crimes
- Significance of Forensic speaker identification.
- Parameter Phonetics-acoustic and auditory.
- Study of extortion threatening calls, hoax calls, drugs transactions and the recorded voice
- Advancement in DNA fingerprinting.
- Cases related to mass disaster.

Student Learning Objectives: On completion of this course the students will be able to:

- **Identify:** Cybercrimes, DNA as blue print.
- **Describe:** Corporate crimes, Intellectual Property Rights, admissibility of polygraph, brain mapping and narco-analysis, DNA as a tool for personal identification.
- **Differentiate:** Encryption and decryption, suspected voice through voice spectra analysis, interrogation techniques.
- **Analyze:** Various tools for identification of person
- **Review:** Techniques of interrogation which is better than the other traditional way of interrogation.

Pedagogy: The course will be administered by incorporating lecture with the help of PowerPoint presentations, discussion on various case studies, assignments and tests.



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