



SHRI VAISHNAV VIDHYAPEETH VISHVAVIDHYALAYA, INDORE

SHRI VAISHNAV INSTITUTE OF FORENSIC SCIENCE

GENERIC ELECTIVE

UNDER GRADUATE

| COURSE CODE | CATEGORY | COURSE NAME | TEACHING & EVALUATION SCHEME | | | | | | | | |
|-------------|----------|-------------------------------|------------------------------|---------------|----------------------|-------------------------|----------------------|---|---|---|---------|
| | | | THEORY | | | PRACTICAL | | L | T | P | CREDITS |
| | | | END SEM University Exam | Two Term Exam | Teachers Assessment* | END SEM University Exam | Teachers Assessment* | | | | |
| GEUFS103 | GE | Introductory Forensic Science | 60 | 20 | 20 | 00 | 00 | 4 | 0 | 0 | 4 |

Legends: L - Lecture; T - Tutorial/Teacher Guided Student Activity; P – Practical; C - Credit;

***Teacher Assessment shall be based following components: Quiz/Assignment/Project/Participation in Class, given that no component shall exceed more than 10 marks.**

Course Objectives: The course aims to provide the students with

The basic knowledge of forensic science their history, Crime Scene Management, Physical evidence, and inculcate the students with the Various Investigative Agencies.

Course Outcomes: After studying this course, the students will-

1. Be able to know about the basics and history of forensic science in India and worldwide.
2. Be able to understand the Principles of Forensic Science.
3. Be able to develop the knowledge of various domains of Forensic Science.
4. Be able to understand the Crime Scene Management and Physical Evidences.
5. Be familiar to the organizational setup of Forensic Science Laboratories in India.
6. Be able to understand the role of the various Investigative agencies.

UNIT I: Introduction to Forensic Science

Definitions, concepts and Scope of forensic science, Branches of forensic science, Functions of forensic science, Historical aspects of forensic science and its development in India and abroad, Need of forensic science, Basic principles of forensic science, Ethics in Forensic Science, Frye case and Daubert standard.

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UNIT II: Scene of Crime

Definition of Scene of Crime (SOC), **Types of scene of crime:** Indoor, outdoor and Mobile. Protection of SOC, **Preservation of SoC:** Videography, Photography, Photogrammetry, Note making and Sketching. Different methods of sketching of SoC.

UNIT III: Physical Evidences:

Definition and types. Class & individual characteristics of physical evidences. Different search methods for locating physical evidences at scene of crime. Handling of physical evidences- preservation, packing, Labelling, transportation & forwarding of the various evidences. Chain of custody.

UNIT IV: Administration and Organizational Setup:

Directorate of Forensic Science Services (DFSS) Fingerprint Bureaus, Central Forensic Science Laboratories (CFSLs), State Forensic Science Laboratories (SFSLS), Mobile Forensic Science Laboratory, National Crime Record Bureaus (NCRB), Police Academies, Police & Detective Training Schools (CDTS)

UNIT V: Investigative Agencies:

Historical Development and Functions of Police, Central Bureau of Investigation (CBI), Criminal Investigation Department (CID), Intelligence Bureau (IB), Research Analysis Wing (RAW), Central Reserve Police Force (CRPF) SSB - Sashastra Seema Bal (SSB), Border Security Force (BSF) Special Protection Group (SPG), National Investigative Agencies (NIA) etc. Forensic Science in International Perspectives including setup of INTERPOL and FBI.

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Suggested Readings:

1. B.B. Nanda and R.K. Tiwari, *Forensic Science in India: A Vision for the Twenty First Century*, Select Publishers, New Delhi (2001).
2. M.K. Bhasin and S. Nath, *Role of Forensic Science in the New Millennium*, University of Delhi, Delhi (2002).
3. S.H. James and J.J. Nordby, *Forensic Science: An Introduction to Scientific and Investigative Techniques*, 2nd Edition, CRC Press, Boca Raton (2005).
4. W.G. Eckert and R.K. Wright in *Introduction to Forensic Sciences*, 2nd Edition, W.G. Eckert (ED.), CRC Press, Boca Raton (1997)
5. R. Saferstein, *Criminalistics* 8th Edition, Prentice Hall, New Jersey (2004).
6. W.J. Tilstone, M.L. Hastrup and C. Hald, *Fisher's Techniques of Crime Scene Investigation*, CRC Press, Boca Raton (2013).

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