

SKILL DEVELOPMENT COURSE

Course Code- NSLSDC-102

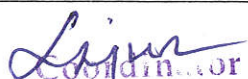
Course Title - COURSE FOR FORENSIC SCIENCE


Total Hours - 36

After completing the Forensic Science program, students will be able to:

1. Explain the career opportunities available to forensic investigators and describe the characteristics of professionals in this field.
2. Identify five common means of death and the ways in which investigators attempt to estimate the time of death.
3. Explain how investigators combine scientific methods with intuition during their investigations and describe the factors that influence the selection and use of various analytical techniques.
4. Describe the typical criminal investigation and the significance of individual and class characteristics in the context of criminal investigations.
5. Explain the purpose of processing and securing the crime scene and outline the considerations involved in the removal of physical evidence, including legal and safety precautions.
6. Describe the procedures followed in the crime lab and identify and describe common tools, processes, and evolving technologies, such as microscopes, fingerprinting, drug screening, and serology and other immunoassay techniques, such as DNA profiling, as well as crime scene reconstruction.

Sr. No	Content	Duration (Hrs)
1	Criminal Justice System Introduction to the administration of criminal justice in a democratic society, with emphasis on the theoretical and historical development of law enforcement. The principles of organization and administration for law enforcement; functions and specific activities; planning and research; public relations; personnel and training; inspection and control; direction; policy formulation.	06
2	Crime Investigation Techniques a) Crime scene sketches and search patterns b) Collection and packaging of physical evidence c). Crime scene photography d). Fingerprint classification e) Inked fingerprints f). Latent fingerprint recovery (powder) g). Impression evidence (footwear impressions) h). Forensic pathology	06
3	FORENSIC PHOTOGRAPHY a) Photography of objects – Close-up, normal, telephoto And processing.	06



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	b) Document and Finger print Photography. c) Photomicrography, Macro photography, X-Ray shadowgraphy and UV fluorescence Photography d) Photography with different filters for developing contrasts	
4	QUESTIONED DOCUMENTS Identification of handwriting – a) General characteristics, natural variations, fundamental divergences and individual characteristics. b) To detect simulated, traced forgeries and disguised handwritings. c) To study the handwriting of person suffering from illness and handwriting written on unusual surfaces d) Examination of additions, alterations and obliterations in the documents. e) Examination of mechanical and chemical use of erasures on the documents f) Examination of indented writings g) Identification of writing inks by TLC h) Examination of security documents (currency note, stamp, passport, lottery, etc.) i) Examination of mechanical, electronic and digital typescripts and printed matter. j) Examination of sequence of intersecting strokes.	12
5	FINGER PRINTS AND IMPRESSIONS a) To take plain and rolled inked fingerprints and to identify patterns b) To perform ridge tracing and ridge counting c) To identify ridge characteristics d) To compare the finger prints e) To develop latent fingerprints with powder, fuming and chemical methods. f) Lifting of fingerprints.	06

References:-

- 1) "Criminal Investigation" by Berg B.L, 4th Edition, New York McGraw Hill Publication.
- 2) "Criminal investigation" by Bennett, W. & Hess, K. (2010), 9th Edition. Belmont, CA: Wadsworth Publication.
- 3) "Forensic Science: A Beginner's Guide (Beginner's Guides (Oneworld))", by Jay Siegel, ONE World Publication.
- 4) "Forensic Science: Principles & Concepts", by Nishant Singh, Ancient Publishing Publication.
- 5) "Forensic Science: Modern Methods of Solving Crime", by Max M. Houck, first edition Neha Publication.
- 6) "Forensic Science: An Introduction to Scientific Crime Detection", by Walls H. J., 2nd Edition UNIVERSAL LAW Publication.
- 7) "Forensic Science", by Ashok Kumar, Discovery Publishing house Publication.


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