

**Five Year Integrated UG/PG Course in Forensic Science
Semester – X, IFSEL- 1002 (h)
Paper –II**

Biometrics (Through Portrait parle technique)

Maximum Marks: 100

Allotted credits: 03

Unit I:

History and definition of Biometrics, Types, features and function of Biometrics, Gait scan and principles. Face, voice, signature scan and their principles.

Unit II:

Fundamentals of fingerprints, History, Fingerprint patterns, Definition of patterns: Arch, Loop and Whorl, Ridge counting and Ridge tracing, Henry's system of classification (primary to key classification).

Unit III:

DNA and its principles in personal identification

Unit IV:

Introduction to skin prints, lip prints, ear prints, bare foot prints and their significance in personal identification, conventional method for development of Latent fingerprints.

References:

1. Ellen David; Questioned Documents- Scientific Examination, Taylor& Francis, Washington (1997).
2. H.L. Blitzer and J. Jacobia; Forensic Digital imaging and Photography, Academic Press (2002).
3. R.E. Jaconson, S.F. Ray, G.G. Attridge, N.R. Oxford; The Manual of Photography- Photographic and Digital Imaging, 9th Ed., Focal Press (2000).
4. B.H.E. Jacobson, Ray GG Attridge; The Manual of Photography, Focal Press, London (1998).
5. Upton, Kobre, Brill; Photography, Pearson Education, Inc.
David R. Redsicker; the Practical Methodology of Forensic Photography- 2nd Ed. CRC Press LLC(2001).