

# Department of Criminology and Forensic Science

**Paper Title: Fingerprint Science**

**Course Outcomes:**

- Understand the meaning, concept, importance and historical background of fingerprints.
- Describe the biological formation of fingerprints, fundamental principles and their types.
- Learn the development of latent fingerprints and their value in the court of law,
- Explain the footprints and their importance in a criminal investigation.

Number of Theory Credits	Number of lecture hours/semester	Number of practical Credits	Number of practical hours/semester
3	42	-----	-----
<b>Content of Theory Course - 2.2</b>			<b>42Hrs</b>
<b>Unit-I: Basics of Fingerprinting</b>			14
<p><b>Chapter-1</b> Fingerprint: Meaning, Concept and history background, with special reference to India.</p> <p><b>Chapter-2</b> Biological basis of fingerprints, Formation of ridges and Fundamental principles of fingerprinting.</p> <p><b>Chapter-3</b> Types of fingerprints, Fingerprint patterns and Fingerprint characters/minutiae.</p> <p><b>Chapter-4</b> Methods of Recording of Plain and rolled fingerprints.</p> <p><b>Chapter-5</b> Classification of fingerprint record.</p>			
<b>Unit-II: Development of Fingerprints</b>			14
<p><b>Chapter-6</b> Type of Chance prints at a crime scene and their development.</p> <p><b>Chapter-7</b> Latent fingerprints' detection by physical and chemical techniques.</p> <p><b>Chapter-8</b> Preservation of developed fingerprints.</p> <p><b>Chapter-9</b> Digital imaging for fingerprint enhancement.</p>			
<b>Unit-III: Other Impressions and Prints</b>			14

**Chapter-10** Footprints: Meaning and Importance.

**Chapter-11** Casting of foot prints and Electrostatic lifting of latent foot prints.

**Chapter-12** Palm prints and their historical importance.

**Chapter-13** Gait Pattern and its use in crime investigation.