



**SOUTH EAST ASIAN EDUCATION TRUST (R)**  
**S.E.A College of Science, Commerce and Arts**  
Affiliated to Bangalore North University  
Recognized by UGC under 2(f): Accredited by NAAC at 'B' Grade

## **DEPARTMENT OF FORENSIC SCIENCE**

### **Program outcome, Program specific outcomes and course outcomes**

<b>PROGRAMME OUTCOME (PO)</b>	<p><b>PO1:</b> This program provides basic knowledge of forensic and its different specializations to identify the modus operandi of criminals and investigate complex crime.</p> <p><b>PO2:</b> Ability to demonstrate team leadership skills through ability to set directions and teamwork skill for achieving the desired goals.</p> <p><b>PO3:</b> Ability to apply reasoning within the conceptual knowledge to serve as an expert with integrity and high professional ethics that can deliver clear, objective and unbiased opinions.</p> <p><b>PO4:</b> Gains perceptive of ethical and professional responsibility.</p> <p><b>PO5:</b> Train the candidate to function effectively as an individual and as a member or leader in diverse teams and in a multidisciplinary setting .</p> <p><b>PO6:</b> Ability to work effectively as an individual, and as a member or leader in diverse teams, or in multidisciplinary domain.</p> <p><b>PO7:</b> Encourage graduates to become good human beings and responsible</p>
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	citizens for the overall welfare of the society.
<b>PROGRAMME SPECIFIC OUTCOME (PSO)</b>	<p><b>PSO1:</b> Graduates will be able to develop critical thinking and reasoning abilities required during handling and interpretation of diverse evidence like digital, chemistry, toxicological, biological, document, audio/videos, Dermatoglyphics.</p> <p><b>PSO2:</b> An ability to employ the techniques during criminal investigations that are economically viable and savvy to regional, national and global crime related problems benefitting respective organization and the professions.</p> <p><b>PSO3:</b> Ability to detect and opine on the evidences recovered from homicidal, accidental, and suicidal cases that may involve exhibit of Dermatoglyphics, digital, anthropological etc. in front of judiciary or criminal justice system</p>
<b>COURSE OUTCOME(CO)</b>	
<b>FS -101T and FS104P INTRODUCTION TO FORENSIC SCIENCE</b>	<p><b>CO1:</b> Students should be able to learn the basic concepts of Forensic Science.</p> <p><b>CO2:</b> Know about the organization of Forensic Laboratory.</p> <p><b>CO3:</b> Know about the history of Forensic science.</p> <p><b>CO4:</b> Able to acquire knowledge on agencies involved in crime detection and investigation.</p>

<b>FS102 T and FS105P BASIC FORENSIC CHEMISTRY</b>	<p><b>CO1:</b>Understand the concepts of atoms, molecules, covalent bonding, density, and serial dilutions.</p> <p><b>CO2:</b>Know the concepts of periodic table-columns( groups) and rows(periods)</p> <p><b>CO3:</b>Understand the essentials of chemistry for Forensics.</p> <p><b>CO4:</b>Acquire knowledge on titrimetric analysis and basic principles of liquids and solids.</p> <p><b>CO5:</b>Learn the preparation of standard solution and to know about adulteration of different essential compounds.</p>
<b>FS103T CRIMINOLOGY</b>	<p><b>CO1:</b>Understand the basic concepts of criminology.</p> <p><b>CO2:</b>Know about the causes and types of crime and criminals.</p> <p><b>CO3:</b>Understand the historical development of Indian prisons.</p> <p><b>CO4:</b>Understand the historical development of victimology.</p> <p><b>CO5:</b>Able to know about crime-victim genesis.</p>
<b>FS-201T and FS-204P CRIME SCENE MANAGEMENT</b>	<p><b>CO1:</b>Learn the basic concepts of crime.</p> <p><b>CO2:</b>Able to study types of evidence found in crime scene.</p> <p><b>CO3:</b>Able to understand the safety considerations while handling evidence.</p> <p><b>CO4:</b>Able to acquire knowledge on agencies involved in crime detection and investigation</p> <p><b>CO5:</b>Demonstrate the technique of security and searching of indoor and outdoor crime scene.</p> <p><b>CO6:</b>Able to sketch crime scene using baseline and triangulation techniques.</p> <p><b>CO7:</b>Use the best technique for the</p>

	collection and preservation of evidence from the scene of crime.
<b>FS- 202T and FS -205P BASIC FORENSIC BIOLOGY</b>	<p><b>CO1:</b>Understand the difference in plant and animal cell.</p> <p><b>CO2:</b>Able to study the classification of kingdom plantae and kingdom Animalia.</p> <p><b>CO3:</b>Able to understand about the organs and tissues of human body.</p> <p><b>CO4:</b>Able to learn the basic and essentials of microbiology</p> <p><b>CO5:</b>Able to understand the concept of inheritance, chromosomal karyotyping, types of mutation.</p> <p><b>CO6:</b>Able to use simple and compound microscope.</p> <p><b>CO7:</b>Able to prepare stained slides to observe the plant and animal cells.</p> <p><b>CO8:</b>Able to familiar with the microbes and bacteria culture.</p> <p><b>CO9:</b>Able to learn epithelial cells.</p> <p><b>CO10:</b>Able to familiarize the basic components of blood.</p>

<p><b>FS-203T</b> <b>CRIMINAL LAW</b></p>	<p><b>CO1:</b>Able to understand the organizations involved in the criminal justice system.</p> <p><b>CO2:</b>Able to point out the provisions of the Indian Penal Code (IPC) with respect to the offences.</p> <p><b>CO3:</b>Appraise the provisions of the Code of Criminal procedure that apply to Forensic Science.</p> <p><b>CO4:</b>Summarize the provisions of the Indian Evidence act(IEA) and some minor acts.</p>
<p><b>FS-301T AND FS-304P</b> <b>FORENSIC DERMATOGLYPICS</b></p>	<p><b>CO1:</b>To provide and understanding of dermatoglyphics and its application in forensic science.</p> <p><b>CO2:</b> To enable students to examine fingerprint evidence.</p> <p><b>CO3:</b> Explain the fundamentals of friction ridges.</p> <p><b>CO4:</b>Classify fingerprints for purpose of comparison and identification.</p> <p><b>CO5:</b> To provide an understanding of dermatoglyphics and its application in forensic science.</p> <p><b>CO6:</b>To enable students to examine fingerprint evidence.</p> <p><b>CO7:</b>Explain the fundamentals of friction ridges</p> <p><b>CO8:</b> Classify fingerprints for purpose of comparison and identification</p> <p><b>CO9:</b>Analyse fingerprints obtained in the crime scene</p> <p><b>CO10:</b>Evaluate impression evidence obtained from the scene of crime</p>

<b>FS 302T AND FS 305P ADVANCED FORENSIC CHEMISTRY</b>	<b>CO1:</b> To provide an understanding of the applications of forensic chemistry <b>CO2:</b> To learn about the analysis of substances under forensic chemistry <b>CO3:</b> Describe the analysis of exhibits encountered in forensic chemistry <b>CO4:</b> Analyse arson and petroleum exhibits <b>CO5:</b> To prepare the TLC plates
<b>FS 303T AND FS 306P TECHNOLOGICAL METHODS IN FORENSIC SCIENCE</b>	<b>CO1:</b> To provide an understanding of the working principles of forensic instruments <b>CO2:</b> Explain the working and applications of microscopy <b>CO3:</b> Differentiate between the types of chromatography. <b>CO4:</b> To examine various biological and chemical samples using gel electrophoresis <b>CO5:</b> To learn the interpretation of spectrogram <b>CO6:</b> To learn epithelial cells.
<b>FS 401T AND FS 404P QUESTIONED DOCUMENT</b>	<b>CO1:</b> To learn about the discipline of questioned document examination <b>CO2:</b> To train students in the analysis of questioned documents. <b>CO3:</b> Describe the examination of questioned documents <b>CO4:</b> Point out the characteristics of signature and handwriting <b>CO5:</b> Evaluate cases related to questioned document examination

<p><b>FS 402T AND FS 405P ADVANCED FORENSIC BIOLOGY</b></p>	<p><b>CO1:</b>To enable students to evaluate and analyse biological evidence  <b>CO2:</b>Describe the forensic significance of blood and body fluids  <b>CO3:</b>Analyse hair samples encountered in crime investigation  <b>CO4:</b>Appraise the importance of botanical evidence  <b>CO5:</b>Hypothesize the reconstruction of the crime scene using blood pattern analysis</p>
<p><b>FS 403T AND FS 406P FORENSIC PSYCHOLOGY</b></p>	<p><b>CO1:</b>To orient students in the discipline of forensic psychology.  <b>CO2:</b> To provide an understanding of the techniques used in forensic psychology &amp; to explain the concepts of psychology.  <b>CO3:</b>Illustrate the applications of forensic psychology.  <b>CO4:</b>Assess the relationship between psychology and criminal behaviour.  <b>CO5:</b>Recommend the tools and techniques for use in forensic psychology</p>