



# ALAGAPPA UNIVERSITY

(A State University Established by the Government of Tamil Nadu in 1985, Accredited with A+ Grade by NAAC (CGPA 3.64) in the Third Cycle, Graded as Category-I University and Granted Autonomy by MHRD-UGC, MHRD-NIRF 2020 Rank : 36, QS 2020 India Rank : 24)  
KARAIKUDI - 630 003, Tamil Nadu, India



## DEPARTMENT OF CORPORATE SECRETARYSHIP VALUE ADDED COURSE Cyber Forensics

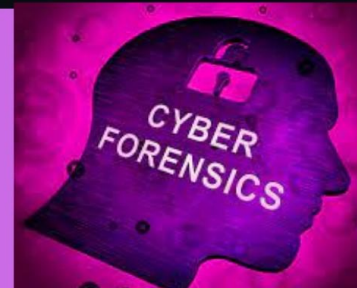


**Forensic Investigation**

**Course Code:CSVAC-08**  
**Duration:30 hours**  
**Session:Jan - Feb 2024**

**COURSE COORDINATOR**

**Dr.S.Selvarani**



### LEARNING OUTCOMES

- *Defining the importance of cyber forensics*
- *Respond effectively to Data Extraction and of using Data Extraction Tools.*

Objectives	<ul style="list-style-type: none"> <li>• To Understand the Basics of Cyber Forensics</li> <li>• To Learn procedure on Evidence Collection and Preservation</li> <li>• To know about Tools and Forensics Data Extraction</li> <li>• To Develop skills for Incident Response and Cybercrime Investigation</li> <li>• To Explore Legal and Ethical Issues in Cyber Forensics</li> </ul>
Unit 1	<b>Introduction to Cyber Forensics:</b> Meaning and Introduction to Cyber Crime – Definition and scope of cyber forensics – Legal and ethical considerations – International Guidance to Cyber forensics Laws – Necessity of International Standards – WSSN – ISO – SABS.
Unit 2	<b>Digital Forensics &amp; Procedure for Investigation:</b> Policy and Procedure Development – Evidence Assessment – Evidence Acquisition – Preserving the integrity of digital evidence – Evidence Examination – Documentation and Reporting.
Unit 3	<b>Incident Response and Cybercrime Investigation:</b> Digital Incident response – procedures – Types of cybercrimes – Investigation techniques – Forensic analysis of compromised systems.
Unit 4	<b>Cyber Forensics and Data Extraction:</b> Introduction to Data Extraction – Cyber Forensics Techniques – Outwit Hub – Web Scraper – Spinn3r – Fminer – Parse Hub – Octaparse – Table Capture – Scrapy – Tabula – Dexi.io – Advantages of using Data Extraction Tools.
Unit 5	<b>Legal and Ethical Issues in Cyber Forensics:</b> Legal aspects of digital evidence – Legal framework for cyber forensics – Ethical considerations in digital evidence handling – Case studies and practical applications.
References and Text Books	<ul style="list-style-type: none"> <li>• Computer Forensics: Investigating Network Intrusions and Cyber Crime – EC-Council – 2009.</li> <li>• Guide to Computer Forensics and Investigations – Bill Nelson, Amelia Phillips, Christopher Steuart – 2019.</li> <li>• Cyber Forensics: From Data to Digital Evidence – Albert J. Marcella Jr., Doug Menendez, and W. Claycomb – 2009.</li> </ul>
Outcomes	<ul style="list-style-type: none"> <li>• Defining the importance of cyber forensics.</li> <li>• Proficiency in explaining Procedure for Investigation.</li> <li>• Demonstration Incident response procedures techniques.</li> <li>• Respond effectively on Data Extraction and of using Data Extraction Tools.</li> <li>• Navigate the legal and ethical considerations in the field of cyber forensics.</li> </ul>