



Jansons Institute of Technology

Karumathampatti, Coimbatore - 641 659

Approved by AICTE and Affiliated to Anna University

An ISO 9001:2015 certified institution

Department of Computer Science and Engineering

Industry Readiness Course - Syllabus

Digital and Mobile Forensics

2018 - 2019 EVEN Semester

Course Objectives:

- To Describe basic principles of digital and mobile forensics
- To identify the unique challenges involved in mobile forensics.
- To Describe mobile ecosystem security mechanisms and risks

Course Outcomes:

- To apply the procedures of the validation, examination and reporting of digital information
- To analyze the extracted data to identify and examine important case data.
- To give the basic functionality of digital and mobile forensics .

Syllabus:

Module 1 Introduction to Digital and mobile forensics

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Introduction to digital forensics - Introduction mobile forensics - Statistics - Feature phones vs. smartphones, challenges - policies and guidelines - mobile forensics tools (5 levels) - Process (identification, preparation, isolation, acquisition, authentication, analysis, presentation, archiving) - basic functionality of digital and mobile forensics.

Module 2 Introduction to Mobile Ecosystem Systems

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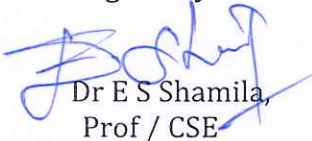
Hardware components - SIM card UICC - cellular network (CDMA vs. GSM vs TDMA vs iDEN vs. LTE) & Mobile IP (wifimax) - Mobile Operating Systems Overview (Android, IOS, Windows Phone, Blackberry) - App Stores - Forensics & Security - Forensics environment.

Module 3 Forensics Environment Setup and Acquisition

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Android SDK - Android Debug Bridge - Forensics CE - Linux VM- commercial tools - bypass passcode - Imaging specification - Memory &/Sim acquisition - Physical acquisition: acquire all data including deleted one - logical acquisition: acquire allocated data - acquisition from backup files - verification of acquisition

Course Designed By


Dr E S Shamila,
Prof / CSE

Industry Readiness Coordinator



Dr A Velayudham,
Prof & Head /CSE

Head of Department

Dr. A. VELAYUDHAM, M.E., Ph.D.,
Professor & Head,
Dept. of Computer Science and Engineering,
Jansons Institute of Technology,
Karumathampatti, Coimbatore - 641 659.


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JANSONS INSTITUTE OF TECHNOLOGY
KARUMATHAMPATTI
COIMBATORE - 641 659.