

Cyber Crime Investigation and Digital Forensics

Overview

Our society is more vulnerable to cyber crimes from individuals and from organizations. Attacks are more organized and are targeting individuals, companies, organizations and even countries. The cybercrime can be computer-based crime or computer-facilitated crime. In a computer-based crime, a computer or computers are used as the vehicle to commit a crime. In computer-facilitated crime, a computer is the target of a crime. The digital forensic is the application of computer science and investigative procedures for a legal purpose involving the analysis of digital evidence after proper search authority, chain of custody, validation with mathematics, use of validated tools, repeatability, reporting, and possible expert presentation. The digital forensic analyst meticulously handles, analyzes and reports on the evidence obtained, to present an objective opinion on the facts of a case without prejudice.

This course will provide a foundation in the field of cyber crimes and digital forensics. The participants will acquire skills to obtain and analyze digital information for possible use as evidence in civil, criminal or administrative cases. They will learn about the importance of digital forensic principles and procedures, legal considerations, digital evidence controls, and the documentation of forensic analysis. This course will explore the digital forensics methods in computer, file system analysis, network, email, mobile and Cloud computing with hands-on treatments, which will help them to acquire skills to work in the challenging and highly pursued area of digital forensics.

Major Modules	A: Introduction to Cyber Crime: November 30, 2016 B: Cyber Crime Investigation: December 1, 2016 C: Digital Forensics: December 2 -4, 2016 D: Email, Mobile and Cloud Forensics: December 5-6, 2016 <i>Number of participants for the course will be limited to fifty.</i>
You Should Attend If...	<ul style="list-style-type: none">You are an executive, engineer and researcher from industry and government organizations, including R&D laboratories interested in learning of Cyber Crime Investigation and Digital Forensics techniques, a growing area of Information SecurityYou are a student at all levels (B.Tech/M.Sc/M.Tech/Ph.D) or Faculty from the reputed academic institutions interested in pursuing research in Cyber Crime Investigation and Digital Forensics
Fees	The participation fees for taking the course is as follows: Participants from abroad : US \$250 Industry/ Research Organizations: Rs. 8000/- Academic Institutions: Rs. 2,000/-(Student) & Rs. 6000/- (Others) (For SC/ST students, 50% fee is waived) The above fee includes all instructional materials, computer use for tutorials and assignments, laboratory equipment usage and Internet facility.

The Faculty



Prof. Greg Gogolin is a full professor in Information Security and Intelligence at Ferris State University, Michigan. He has obtained following professional positions: Fulbright Scholar/Researcher – Universidad de Chile (2013), Distinguished Professor – Ferris State University (2011), Professor, Ferris State University, Big Rapids, (1999-present), Professional Investigator/Consultant, Michigan Digital Forensics, (2001-present) etc. His primary research interests are Digital Forensics, Business Intelligence, and Project Management.

Dr. Gogolin has received funded research grants for the National Science Foundation and other organizations, numerous publications in reputed journals, conferences, books. He has delivered talks on digital forensics and information security at many events in reputed organizations. He has many professional and public services such as Law Enforcement assistance (25+ investigations) – Digital Forensic investigations (2009 – present), Reviewer of various Journals, Reviewer of Grant Proposals, United States Dept. of Homeland Security (CEDAP) (2006 – 2010), Newaygo County ISD Employees and Consultants, MI (2001 – 2012). He holds many Certifications & Licenses including Private Investigator: State of Michigan, Digital Forensics, Certified Information Systems Security Professional (2009 – present), Information Systems Security Certification Consortium (ISC2), (2004 – present), EnCE, Certified EnCase Examiner (Digital Forensics), 2008 – present, Guidance Software, ACE, Certified FTK Examiner (Digital Forensics), 2012 – present, Access Data and Certified Handheld Examiner (Digital Forensics), Paraben.



Dr. Modi Chirag Navinchandra is an Assistant Professor of Computer Science and Engineering at National Institute of Technology Goa. His research interest include Information Security and Privacy, Cryptography, Cloud Security, Network Security, Intrusion Detection and Privacy Preserving Data Mining. He has received the Young scientist award (2015) by VIFRA, Chennai. He holds Best Review Paper Award (2015), from JNCA, Elsevier, San Diego, USA.



Dr. Pravati Swain is working as an Assistant Professor in the Department of Computer Science and Engineering, National Institute of Technology Goa, India. Her research interests include Analysis of high-speed communication networks, Virtual Data Center, Wireless network, Mobile computing, Stochastic process, Formal Verification.



Dr. Keshavamurthy B. N. is working as an Assistant Professor in the Department of Computer Science and Engineering, National Institute of Technology Goa, India. His research interests include Privacy preserving mining, Stream mining and Social network analysis.

Location:



National Institute of Technology Goa
Farmagudi, Ponda, Goa-403401, India

Course Duration:

30th November- 6th December, 2016

Course Coordinator

Principal Coordinator

Dr. Modi Chirag Navinchandra

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Co-Coordinator

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Course Registration Link:

<http://www.gian.iitkgp.ac.in/GREGN>

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