



ITU Centres of Excellence Network for Arab Region

Naif Arab University of Security Sciences (NAUSS)

Online Training Course on

**“Introduction to Digital Forensics”
24-25 November 2021**

TRAINING COURSE OUTLINE

COURSE DESCRIPTION

Title	Introduction to Digital Forensics
Objectives	The objective of this course is to understand best practices in digital evidence preservation, acquisition, analysis and reporting the through use of various tools and techniques.
Dates	24- 25 November 2021
Duration	2 Days
Registration deadline	20 November 2021
Training fees	0 USD (Free)
Course code	21OI27705ARB-E

DESCRIPTION OF THE TRAINING COURSE

Digital forensics is a branch of forensics science discipline which deals with the analysis of digital media for the presence or absence of digital evidence through scientifically proven methods to aid cyber investigations. This course will be a combination of presentations, demonstrations and hands-on labs where attendees will learn how to acquire and analyze potential artifacts from the windows operating system.

LEARNING OUTCOMES

By the end of this training, participants should be able to:

- Understand the best practices in dealing with electronic evidences.
- Comprehend hashing and forensic imaging.
- Understand the importance of Windows registry in forensic investigation.
- Ability to perform forensic imaging.
- Ability to perform data recovery/carving.
- Skills to analyze forensic images in the forensic analysis tool and reporting.

TARGET POPULATION

The course targets security professionals, engineers, technical staff, telecom operators, administrators from government organizations, industry companies and academia, as well as individuals who are interested in digital forensics.

ENTRY REQUIREMENTS

There is not mandatory prerequisite course to attend this course, but the following knowledge and skills preferred.

- Have a background of computer science and IT related experience.
- Basic knowledge about windows operating system

TUTORS/INSTRUCTORS

NAME OF TUTOR(S)/INSTRUCTOR(S)	CONTACT DETAILS
Mr. Sundaresan Ramachandran	sramachandran@nauss.edu.sa

TRAINING COURSE CONTENTS

This course provides the following topics.

- Module 1: Introduction to Digital Forensics: To understand the Digital forensics investigation process and types of digital evidences, maintaining evidences chain of custody, acquiring disk images.
- Module 2. Understanding Filetypes, File signatures and data recovery/carving tools.
- Module 3: Introduction to Windows registry and registry analysis tool.
- Module 4: Analyzing disk images in the forensics tool and reporting.

TRAINING SCHEDULE AND CONTENTS / AGENDA (Riyadh Time)

Day 1. Module 1 and Module 2		
Date for 1 st day	Time; Start time	Topics/Activities
24/11/2021	09:00-13:00	Introduction to digital forensics and understanding filetypes and file signature, data recovery/carving.

METHODOLOGY (Didactic approach)

Day 2: Encryption and Decryption		
Date for 2 nd day	Time; Start time	Topics/Activities
25/11/2021	09:00-12:00	Introduction to windows registry and analysing disk images in forensic tool.
	12:00-13:00	Final Exam

- This course provides Instructor-led presentations and provides hands-on practices.

EVALUATION AND GRADING

- Evaluation for this course is conducted by final overall exam (100%): Participants should attend final exam at the end of this course. A passing mark of 70% is required to get the course completion.

TRAINING COORDINATION

Training Coordinator: Dr. Abdulrazaq Al-Morjan Director of Centre of Excellence in Cyber Crimes and Digital Forensics NAUSS Mobile: +966 54 470 05 53 E-mail: t-aalmargan@nauss.edu.sa	ITU Coordinator: Mr. Ahmed El Raghy Senior Advisor ITU Arab Regional Office Tel: +202 3537 1777 Mobile: +20100 528 1908 Fax: +202 3537 1888 Email: ahmed.elraghy@itu.int
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REGISTRATION AND PAYMENT

ITU Academy portal account

Registration and payment should be made online at the ITU Academy portal.

To be able to register for the course you **MUST** first create an account in the ITU Academy portal at the following address:

<https://academy.itu.int/user/register>

Training course registration

When you have an existing account or created a new account, you can register for the course online at the following link: <https://academy.itu.int/training-courses/full-catalogue/introduction-digital-forensics>

You can also register by finding your desired course in our training catalogue <https://academy.itu.int/training-courses/full-catalogue>