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CYBERSECURITY



CRYPTOGRAPHY CONCEPTS, PAST AND PRESENT

This course aims to give a general overview on the principles of cryptography and their history. The audience is anyone using technology today, i.e. everyone. All beginner-friendly: this course does not use any computers, code, or mathematics.

This is a hands-on workshop using physical tools (pencil, paper, scissors, envelopes, locks) to show message scrambling techniques dating back to old Greece up to modern times.

The target audience are as well end user as management. Also IT specialists can follow the course to get new ideas how to explain security concepts.

Note: This course does not cover the detailed working of blockchain or cryptocurrencies.

[View online](#)

Price: 12,00 €

Start date: 14.12.2023

Instructor(s): Georges Kessler

Language: English

Difficulty: Beginner



CYBERSECURITY AWARENESS

This awareness course introduces participants to the risks that come with computers, mobile devices and the Internet. In what concerns data breaches and cyber attacks, it is mostly people who are targeted by cybercriminals, not computers. With the help of many real-world examples, the interactive session aims at confronting participants with threats that they will face in everyday life, and teaches them how to master the situations. Participants who have completed the training will be much more resilient against such cyber risks.

[View online](#)

Price: 12,00 €

Start date: 16.11.2023

Instructor(s): Steve Muller

Language: English

Difficulty: Beginner



DOMAIN NAME SYSTEM (DNS) ADMINISTRATION

The Domain Name System (DNS) is one of the core elements of online communications: making the link between a network of devices and the Internet, made for humans. Most online activities actually start with a request to the DNS, making this protocol of utmost importance for IT operations.

This course is targeted at IT students, professionals or enthusiasts having to deal with DNS (for example because they operate a corporate network or manage domain names) and aims at giving them sound theoretical basis and a concrete hands-on experience (through practical labs) to embrace best practices and avoid caveats in operation.

[View online](#)

Price: 56,00 €

Start date: 19.10.2023

Instructor(s): Dr. Guillaume-Jean Herbiet

Language: English

Difficulty: Beginner



DONNÉES PERSONNELLES ET SÉCURITÉ DE L'INFORMATION – ENJEUX JURIDIQUES ET NOUVELLES RÈGLES DE L'UE

Cette formation vise apporter les éléments de compréhension des concepts et enjeux juridiques de la sécurité de l'information. Elle permet ensuite aux participants de contrôler et de valider leur conformité.

[View online](#)

Price: 16,00 €

Start date: 27.11.2023

Instructor(s): M. TOME, Mickaël

Language: French

Difficulty: Beginner



FUNDAMENTALS OF SECURE EMAILS CONFIGURATION

Email remains one of the primary vectors used to target users within a company. Ensuring the utmost security of email systems is a critical concern for many organizations. Therefore, IT professionals, especially IT administrators, must possess the essential skills to establish a secure email configuration. This course is designed to cover the principles and requirements for designing and implementing a robust and effective email configuration. It will emphasize the key elements necessary to protect users through a combination of technical and organizational measures

[View online](#)

Price: 28,00 €

Start date: 15.12.2023

Instructor(s): Philippe Parage, Dominique Kogue

Language: English

Difficulty: Beginner



INTRODUCTION À LA CYBERSÉCURITÉ

Les technologies digitales et l'internet sont devenus indispensables dans la vie quotidienne.

De ce fait les attaques sur les systèmes d'information accroissent de jour en jour. Il est donc indispensable de connaître les méthodes et techniques des attaquants afin d'éviter des conséquences néfastes au niveau professionnel et privatif.

Ce cours offre une vue globale sur les systèmes d'informations et prépare les participants aux problèmes qui peuvent survenir dans le quotidien.

Le cours présente un échange constant entre le formateur et les participants. La théorie est illustrée par des petites séquences vidéo qui amènent les participants à réfléchir et qui sera base de discussion pour trouver des solutions pour contourner l'attaque.

[View online](#)

Price: 36,00 €

Start date: 06.12.2023

Instructor(s): GNAD Christiane

Language: French

Difficulty: Beginner



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[View online](#)

Price: 36,00 €

Start date: 14.05.2024

Instructor(s): GNAD Christiane

Language: French

Difficulty: Beginner



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[View online](#)

Price: 36,00 €

Start date: 07.11.2024

Instructor(s): GNAD Christiane

Language: French

Difficulty: Beginner



INTRODUCTION À LA GESTION DES RISQUES ET MONARC

Pour minimiser les risques au sein d'une organisation, il est essentiel de les analyser et de les comprendre en profondeur. Aborder l'analyse des risques sans méthode structurée conduit souvent à des imprécisions, et tenter de le faire sans outil efficace peut s'avérer long et fastidieux. Ce cours vise à fournir aux participants les bases de l'analyse de risques, à les familiariser avec les normes et méthodologies existantes en matière de gestion de risques et à leur permettre de comprendre et d'utiliser l'outil et la méthode MONARC, une initiative open-source du Luxembourg.

[View online](#)

Price: 52,00 €

Start date: 05.12.2023

Instructor(s): Benjamin Joly

Language: French

Difficulty: Beginner



INTRODUCTION TO NETWORK SECURITY

Networking is a complex and dynamic field within the realm of computer technology. It poses significant challenges due to the multitude of involved technologies that are constantly evolving. IT professionals and network administrators, in particular, face the crucial task of securely installing, configuring and troubleshooting networking software, protocols, services, devices, and access points, including wireless networks. The "Introduction to Network Security" course addresses these challenges and equips participants with essential skills to design, configure, assess, and monitor the security of their organization's network.

[View online](#)

Price: 56,00 €

Start date: 07.12.2023

Instructor(s): Dominique Kogue, Philippe Parage

Language: English

Difficulty: Beginner



MICROSOFT SECURITY, COMPLIANCE, AND IDENTITY FUNDAMENTALS

Ce cours fournit des connaissances de base sur les concepts de sécurité, de conformité et d'identité, ainsi que sur les solutions Microsoft basées sur le cloud qui s'y rapportent.

Le support de cours et l'environnement des labs est en anglais.

[View online](#)

Price: 28,00 €

Start date: 04.12.2023

Instructor(s): Microsoft Certified Trainer Xavier NIX

Language: French

Difficulty: Beginner



MULTI-FACTOR AUTHENTICATION

This course will introduce various methods of multi-factor authentication, and use hands-on activities in which participants will learn how multi-factor authentication works, and how to secure their account by adding an additional factor of authentication.

[View online](#)

Price: 12,00 €

Start date: 24.11.2023

Instructor(s): Stefan Winter

Language: English

Difficulty: Beginner



NETWORK SECURITY AND INTRO TO THREAT HUNTING WITH WIRESHARK

This course is an introduction to using Wireshark for network security. It includes practical exercises about Transport Layer Security and analysis of malware communication.

[View online](#)

Price: 36,00 €

Start date: 01.02.2024

Instructor(s): Hommes Stefan

Language: English

Difficulty: Intermediate



PRINCIPES FONDAMENTAUX DE LA GESTION DES INCIDENTS DE SÉCURITÉ INFORMATIQUE

Avec la numérisation croissante de tous les secteurs d'activité, les incidents informatiques, y compris les incidents de sécurité, sont devenus alarmants et peuvent avoir des conséquences désastreuses. Par conséquent, il est crucial pour les administrateurs informatiques et les responsables des opérations informatiques de posséder les compétences nécessaires pour hiérarchiser, évaluer et gérer efficacement les différents types d'incidents. La formation "Introduction à la gestion des incidents de sécurité informatique" est spécialement conçue pour fournir aux participants les compétences et techniques essentielles requises pour concevoir et mettre en œuvre des processus efficaces de gestion des incidents et de gestion de crise. En outre, cette formation comprend des exercices immersifs qui simulent des situations de crise, permettant aux participants d'expérimenter directement l'importance d'une communication efficace dans de tels scénarios.

[View online](#)

Price: 24,00 €

Start date: 21.11.2023

Instructor(s): Benjamin Joly

Language: French

Difficulty: Beginner



PRIVACY AND DATA PROTECTION: LEGAL STAKES AND FUNDAMENTALS

This course provides you with an introduction to the requirements of the General Data Protection Regulation (GDPR), how to comply and demonstrate compliance, how to address practical issues, and how to embed data protection into operations.

[View online](#)

Price: 16,00 €

Start date: 20.11.2023

Instructor(s): M. TOME, Michaël

Language: English

Difficulty: Beginner



QUANTUM COMMUNICATIONS: THEORY AND APPLICATIONS

Quantum communications is transitioning swiftly from theoretical concepts to practical applications, with a growing number of commercial products already available in the market. For instance, quantum key distribution is one such application that has been successfully implemented. This theory course offered to the interested professionals, covers the basic theory and potential applications of quantum communication systems. The aim of this course is to familiarize the attendees with the notion of quantum states, difference between quantum and classical information, role of entanglement in quantum communications, detailed explanations of fundamental protocols of quantum communications, and the motivation and possible architectures of quantum internet. Familiarity with the basics of linear algebra is recommended but not required.

[View online](#)

Price: 12,00 €

Start date: 27.11.2023

Instructor(s): Professor Chatzinotas Symeon & Dr Ur Rehman Junaid

Language: English

Difficulty: Beginner



SECURE DNS INFRASTRUCTURE WITH DNSSEC

The Domain Name System (DNS) is an old and "unsecure by default" protocol, yet at the core of Internet communications and carrying more and more security-related information.

Domain Name System Security Extensions (DNSSEC) adds origin authentication and integrity protection to the protocol by signing DNS data. However the ratio of signed domain names remains low, mostly because, as any security feature, DNSSEC brings some risks when implemented without a proper understanding.

This course targets IT students, professionals or enthusiasts currently managing domain names and willing to start signing their DNS zones, improve or gain confidence in their signing procedures with hands-on experience and best-practices.

[View online](#)

Price: 28,00 €

Start date: 27.10.2023

Instructor(s): Dr. Guillaume-Jean Herbiet

Language: English

Difficulty: Intermediate



SMARTPHONES ARE HARD TO HACK: MYTH OR REALITY?

Since the birth of the iPhone in 2007, the smartphone has become our mobile device of choice, allowing us to be more connected and productive than ever. With these extremely powerful mini computers in our pockets, containing private, confidential and sometimes sensitive data, it has evolved into an increasing target for hackers and government agencies alike from all over the globe. Hence, it is of importance to understand the major threat vectors as well as how to reduce the risks of our smartphone getting hacked. Through a mix of theory, real world examples and interactive discussions, you'll discover how easy or difficult it can be to compromise a modern smartphone.

[View online](#)

Price: 24,00 €

Start date: 19.12.2023

Instructor(s): Damien Schreurs

Language: English

Difficulty: Beginner