

COMPUTER ENGINEERING (LM55)

(Lecce - Università degli Studi)

Insegnamento SYSTEM SECURITY C.I.

GenCod A006445

Docente titolare Francesco TOMMASI

Insegnamento SYSTEM SECURITY C.I.

Anno di corso 1

Insegnamento in inglese SYSTEM SECURITY C.I.

Lingua

Settore disciplinare ING-INF/05

Percorso PERCORSO COMUNE

Corso di studi di riferimento COMPUTER ENGINEERING

Tipo corso di studi Laurea Magistrale

Sede Lecce

Crediti 5.0

Periodo Secondo Semestre

Ripartizione oraria Ore Attività frontale: 45.0

Tipo esame Orale

Per immatricolati nel 2021/2022

Valutazione

Erogato nel 2021/2022

Orario dell'insegnamento

<https://easyroom.unisalento.it/Orario>

BREVE DESCRIZIONE DEL CORSO

Introduction to Computer Security
Vulnerabilities of Set-UID programs
Attacks based on Environment Variables
Buffer Overflow attacks
Introduction to Cryptography
One-Way Hash Functions
Secret-Key Encryption
Public Key Cryptography
Public Key Infrastructure
Web security
Transport Layer Security
Bitcoin and Blockchain

PREREQUISITI

Knowledge of the content of the course "System and Network Programming" of the same teacher

OBIETTIVI FORMATIVI

The course aims at providing the students with the basics of Computer Security. The course is based on UNIX®, because of the popularity of such operating system among professionals.

METODI DIDATTICI

The course is strongly oriented towards a hands-on methodology.

MODALITA' D'ESAME

Writing a program aimed at solving a given problem in a given time.

PROGRAMMA ESTESO

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Transport Layer Security
Bitcoin and Blockchain

TESTI DI RIFERIMENTO

Textbook:
Wenliang Du. Computer & Internet Security: A Hands-on Approach, Second Edition, May 2019, ISBN 978-1733003933
Additional, useful references:
F. Tommasi "Alla Scoperta di UNIX - Esplorare GNU/Linux e macOS con la linea di comando", Marzo 2021, ISBN: 9791220082204