Course guide
230715 - CSMAGT - Cybersecurity Management

Last modified: 26/05/2023

Unit in charge: Barcelona School of Telecommunications Engineering
Teaching unit: 744 - ENTEL - Department of Network Engineering.
701 - DAC - Department of Computer Architecture.

Degree: MASTER'S DEGREE IN TELECOMMUNICATIONS ENGINEERING (Syllabus 2013). (Optional subject).
MASTER'S DEGREE IN ADVANCED TELECOMMUNICATION TECHNOLOGIES (Syllabus 2019). (Optional subject).
MASTER'S DEGREE IN CYBERSECURITY (Syllabus 2020). (Optional subject).

Academic year: 2023 **ECTS Credits:** 5.0 **Languages:** English

LECTURER

Coordinating lecturer: Consultar aquí / See here: https://telecos.upc.edu/ca/estudis/curs-actual/professorat-responsables-coordinadors/responsables-assignatura

Others: Consultar aquí / See here: https://telecos.upc.edu/ca/estudis/curs-actual/professorat-responsables-coordinadors/professorat-assignat-idioma

PRIOR SKILLS

To be interested in cybersecurity topics

REQUIREMENTS

There are no preliminary requirements although being familiar with network security topics will help

TEACHING METHODOLOGY

The course is structured in 12 sessions (3 hours long) in which we present hot topics on cybersecurity. We try to ask professionals from industry to come and explain their daily activity on the topic. After the lecture students have to start a debate with the help of the professors and wirte a short essay or reflection work about the topic.

Students also have to prepare a topic to be presented in front of the other students

LEARNING OBJECTIVES OF THE SUBJECT

To be familiar with cutting edge cybersecurity technologies, explained from industry professionals. To learn how to search truthful and useful information of innovative topics

STUDY LOAD

Type	Hours	Percentage
Hours large group	39,0	31.20
Self study	86,0	68.80

Total learning time: 125 h

CONTENTS

Invited talks

Description:
Legaltech
Forensics
Security in 5G challenges
SOCs and SIEM
eVoting
Cybercrime economy
Ethical Hacking
Secure AI
Purple approach of pentesting

Full-or-part-time: 0h 39m
Theory classes: 0h 39m

GRADING SYSTEM

Rubrics for assessments will be delivered for every students' presentations to be filled by other students and professors. Reports will be graded by professors

EXAMINATION RULES.

All reports of each topic have the same weight, and an overall percentage of the 50% of the final grade. Final qualification will be the arithmetic mean of the reports grade and the presentation grade.