



SECURITY AND RISK: MANAGEMENT AND CERTIFICATIONS


Simone Soderi



M0 - Course Introduction




Who I am




Publications

Conference Papers
Journal Papers
Book Chapters




Patents

5 Patents
(US/EP/WO/AU/ES,...)



Doctoral Studies

Dr. Sc. (Tech)
University of Oulu (FIN)



Industry

Railway Signalling R&D
Telecom Team Leader
Program Manager
System/Firmware Designer



Cyber-security

Italy CyberSec Country Manager
Senior Researcher - Post-Doc IMT
National Coordinator
Cyberchallenge.IT
Lecturer UniPD





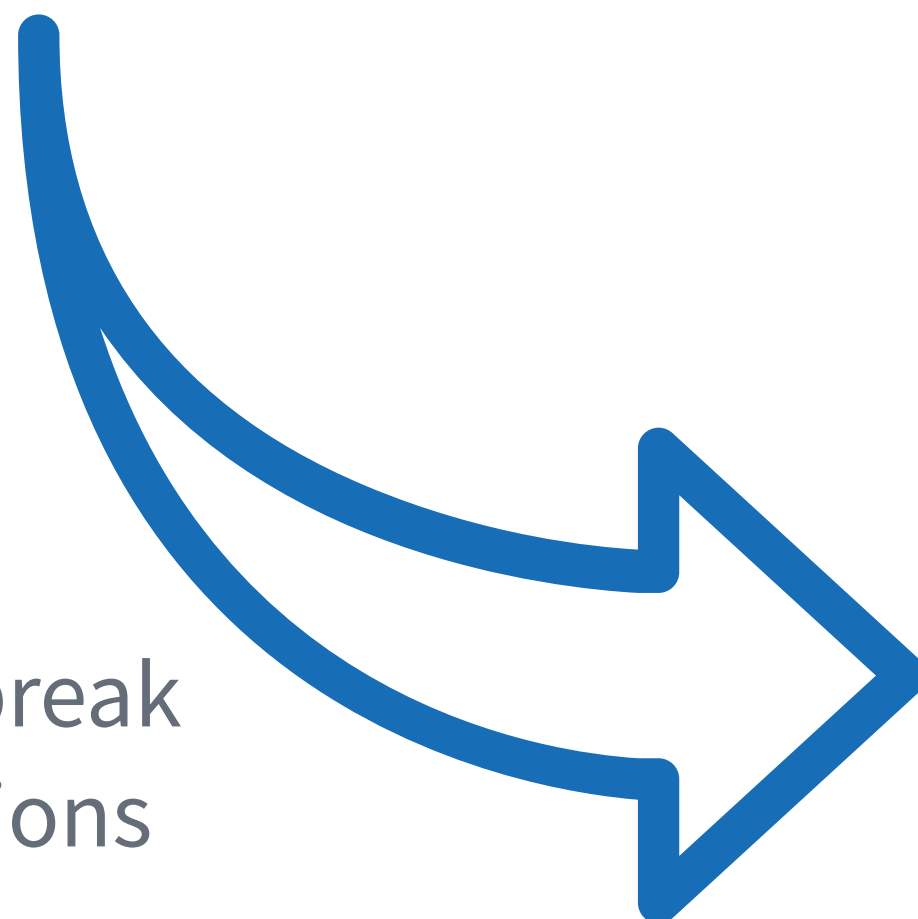
Course program

- 1. Basic Concepts;**
- 2. Planning for Cybersecurity;**
- 3. Cybersecurity Operations and Management;**
- 4. Security Assessment and use cases;**
- 5. Certification and Frameworks for Organizations and management systems;**
- 6. Certification of products and technologies;**
- 7. Frameworks that describe the competencies;**
- 8. Certification of people;**
- 9. Most common Certifications available on the market;**
- 10. Audit techniques and approach examples.**

Course program

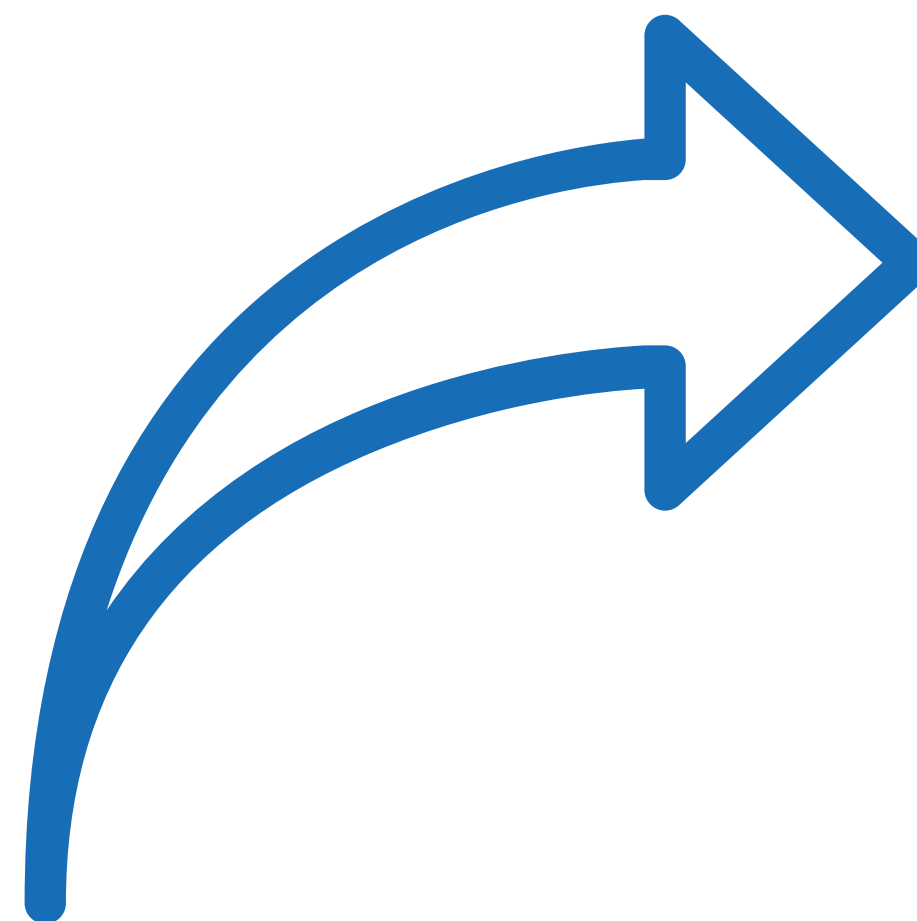
1. **Basic Concepts;**
2. **Planning for Cybersecurity;**
3. **Cybersecurity Operations and Management;**
4. **Security Assessment and use cases;**

until about the break
for Easter vacations



Simone Soderi
[24 h = 3CFU]

Course program



Antonio Belli
[24 h = 3CFU]

- 5. **Certification and Frameworks for Organizations and management systems;**
- 6. **Certification of products and technologies;**
- 7. **Frameworks that describe the competencies;**
- 8. **Certification of people;**
- 9. **Most common Certifications available on the market;**
- 10. **Audit techniques and approach examples.**



Useful Info

1. Course Calendar:

- Start: 28/02/2022
- End: 11/06/2022

2. Course Schedule:

- Monday 10:30 - 12:30
- Friday 10:30 - 12:30

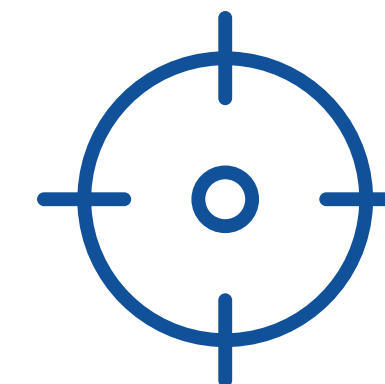
3. Course delivery method: hybrid:

- Classroom: DM 2BC/30 [Torre Archimede]
- Zoom:
 - The link is in the Moodle page of the course

4. Academic calendar and major deadlines 2021-2022

- <https://www.unipd.it/calendario-scadenze>
 - There will be no class
 - * **Easter vacation:** Friday, April 15, 2022 through Tuesday, April 19, 2022.
 - * **Justinian Day:** Friday, June 3, 2022.

Goal



1. The course deals with

- the **assessment** of cyber risks that can damage a corporate information system;
- the **methodologies** to mitigate these risks;
- the necessary **countermeasures** to be applied with the aim of making the company or public institution secure from an IT point of view.

2. Students will be introduced to

- principles **concepts**, and **practices** for governing, managing, and auditing cybersecurity in accordance with international standards;
- generally accepted professional **best practices, certifications** and **reference frameworks**.

3. Students will develop

- the skills to **plan** and **manage** the security of information systems and know the different alternatives while identifying security risks;
- the **knowledge on the work context** related to information security, particularly on certifications concerning organizations, technologies, skills, and people, with an overview of the main reference frameworks.

Study materials

1. Course slides

- Available on Moodle

2. Book

- Effective Cybersecurity: A Guide to Using Best Practices and Standards, 2019, Stallings, W.

3. Optional supplementary readings

- CyBok v.1.1 - The Cyber Security Body of Knowledge, 2021
 - https://www.cybok.org/media/downloads/CyBOK_v1.1.0.pdf



Exam

1. What

- Students will take an exam at the end of the course. The final exam covers all material for the semester.

2. When

- Examination dates will be announced during the course.



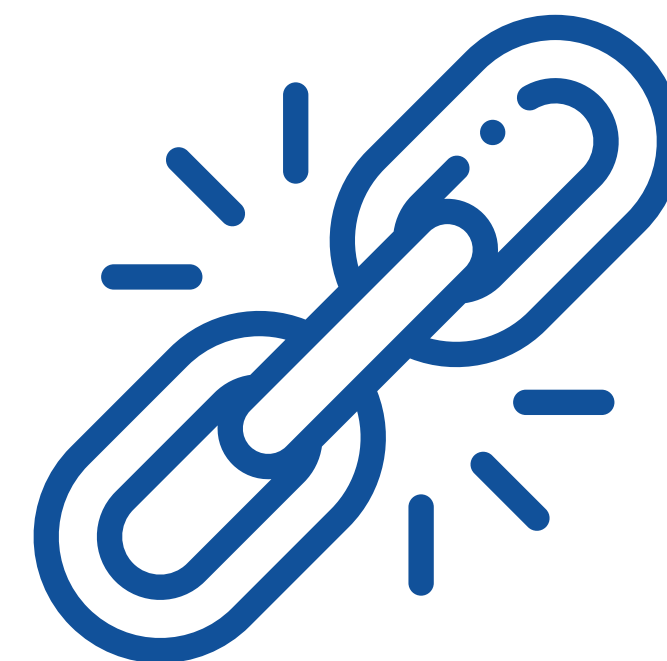
Links

1. Course

- Syllabus:
 - https://syllabus.didattica.unipd.it/attivita/1220439?return_to=index&testi_lang=en
- Moodle:
 - <https://elearning.unipd.it/math/course/view.php?id=896>

2. Contacts

- Simone Soderi simone.soderi@unipd.it



Questions?





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Thanks for your attention!