

EM4S4M05

Program

PGE
PGE 2A - Marketing digital

UE

Information security management

Semester

B

Discipline

Information systems management

Contact hours

27 H

Number of spots

45

Open to visitors

Yes

Language



Coordinator

Laura GEORG SCHAFFNER



List of lecturers

Lecturer(s)	Email	Contact hours - lecture
Laura GEORG SCHAFFNER	laura.g.schaffner@em-strasbourg.eu	27 h

Pedagogical contribution of the course to the program

LEARNING GOAL 1 : Students will master state-of-the-art knowledge and tools in management fields in general, as well as in areas specific to the specialized field of management.

Students will identify a business organization's operational and managerial challenges in a complex and evolving environment.

Students will understand state-of-the-art management concepts and tools and use them appropriately.

Students will implement appropriate methodologies to develop appropriate solutions for business issues.

LEARNING GOAL 2 : Students will develop advanced-level managerial skills.

Students will work collaboratively in a team.

Students will communicate ideas effectively, both orally and in writing, in a business context.

LEARNING GOAL 3 : Students will demonstrate their understanding of practices reflecting ethical, diversity and sustainable development values in business organizations.

Students will identify and analyze issues relating to diversity, ethics and sustainable development in their business context.

LEARNING GOAL 4: Students will study and work effectively in a multicultural and international environment.

Students will analyze business organizations and problems in a multicultural and international environment

Description

Securing the availability, confidentiality and integrity of information became key success factors for enterprises to create, preserve, and extend their competitiveness in the information age. Information Security is an integral part of Information Systems Management going beyond IS boundaries and touching issues of HR, Marketing or Risk Management. This course provides a comprehensive overview of relevant topics in the area starting with developing a real-life security framework incl. Security Management & Governance strategies, applying international Best-Practice Standards, designing Security Strategies and Architectures, explaining the logic of Security Infrastructure and learning about Security Processes. The course combines theories with practical examples, using a case study to deepen students understanding of the topic. The course will also contain a final chapter on discussing Security Ethics encouraging critical thinking while deploying security tools.

Teaching methods

Face-to-face

- Lectures
- E-learning
- Other :

In group

- Exercises
- Oral presentations
- Projects
- Case studies/texts

Interaction

- Discussions/debates
- Games (educational, role play, simulation)

Others

No items in this list have been checked.

Learning objectives

Cognitive domain

Upon completion of this course, students should be able to

- - (level 1) **Memorize** the main theories/frameworks from InfoSec disciplines on Security Management and Governance, incl. HR Security, operational risk management etc.
 - - (level 3) **Apply** the principles for design of security architectures
 - - (level 3) **produce** a qualitative research case study.
 - - (level 4) **Analyze** Information Security Infrastructure elements to perform efficient and effective choices on their deployment.
 - - (level 5) **Generate** unanswered questions that may provide fruitful venues for research
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Affective domain

Upon completion of this course, students should be able to

None affective domain have been associated with this course yet

Outline

Session 1: Introduction :The role of Information Security in Companies
Session 2: Cyber Risk Management
Session 3: Infonomics: The Value at Risk
Session 4: CISO in Practice
Session 5: Security Governance & Metrics
Session 6: Global Security Standards
Session 7: Security Strategies & Creating Security Awareness
Session 8: Privacy Design w/ RGPD
Session 9: Outlook & Ethics

No prerequisite has been provided

Knowledge in / Key concepts to master

None.

Teaching material

Mandatory tools for the course

- Computer
- Other :

Documents in all formats

- Newspaper articles
- Case studies/texts

Moodle platform

- Upload of class documents
- Interface to submit coursework
- Assessments

Software

No items in this list have been checked.

Additional electronic platforms

No items in this list have been checked.

Recommended reading

Main reading material
Course Book:

Management of Information Security, 6th Edition

Michael E. Whitman Michael J. Coles College of Business, Kennesaw State University/ Herbert J. Mattord Michael J. Coles College of Business, Kennesaw State University

ISBN-10: 130550125X | ISBN-13: 9781305501256

592 Pages

Additional literature

No reading material has been provided.

EM Research: Be sure to mobilize at least one resource

Textbooks, case studies, translated material, etc. can be entered

Laura Georg Schaffner, Information security governance: pending legal responsibilities of non-executive boards, September 2016, Journal of Management and Governance 21(4), DOI: 10.1007/s10997-016-9358-0

Assessment

List of assessment methods

Intermediate assessment / continuous assessment 1 Class no. 2,3,4,5,6,7

Written (10 Min.) / Individual / English / Weight : 50 %

Details : Each session starts with a short quiz in moodle revisiting the content of the previous session as well as posing questions on the prepared material of the class of the day. Unexcused absences result in a reduction of 1 pt of the final grade. Excused absences can be compensated through bonus questions from quizzes of other sessions.

This evaluation is used to measure L01.1, L01.2, L01.3, L03.1

Intermediate assessment / continuous assessment 2 Class no. 2,3,4,5,6,7

Written and oral (20 Min.) / Group / English / Weight : 50 %

Details : Groups of minimum of 2 students present their results of an ongoing course project at every session. The presentation must be made available to the class 2 days before the session.

This evaluation is used to measure L01.1, L01.2, L01.3, L02.1, L02.3, L04.2