

Technology and management of Information Systems

EM054M8N

Program

PGE
PGE 2A - SUPPLY CHAIN MANAGEMENT

UE

Technology and management of Information Systems

Semester

B

Discipline

Information systems management

Contact hours

27 H

Number of spots

45

ECTS

5

Open to visitors

Yes

Language



Coordinator

Dzmitry KUCHARAVY



List of lecturers

| Lecturer(s) | Email | Contact hours - lecture |
|-------------------|--|-------------------------|
| Dzmitry KUCHARAVY | dkucharavy@unistra.fr | 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 participate in a decision-making process in a critical way.

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

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

Students will demonstrate written and oral competency in two foreign languages.

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

Description

The aim of the course is to provide information and knowledge on the modern Information systems and relevant technologies. It is supposed to proceed with the definition of the main features of Information systems and Technology management. Therefore, we will proceed with a discussion of some issues of Technology management in context of information systems. The course will show some possible application of existing Technology management approaches to information systems and strategic planning activities.

A particular technique "Extrapolation with S-curves" will be introduced for supporting case studies. Practical workshops will be proposed for individual and group exercises, with and without the use of dedicated software.

Teaching methods

Face-to-face

- Lectures
- Tutorials

In group

- Exercises

Interaction

- Discussions/debates

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) **recall** Technology management methods
 - - (level 1) **define** Information system in practical context
 - - (level 3) **employ** methodology of fitting time-series data with logistic S-curve model
 - - (level 6) **construct** an interpretation of results useful for strategic decision-making
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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

1. Introduction
 2. Information, Systems and Management
 3. IT infrastructure and emerging technologies
 4. Technology Management
 5. Case studies: extrapolation using S-curves for supporting strategic decisions
 6. Roadmapping Information Systems
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No prerequisite has been provided

Knowledge in / Key concepts to master

Consistent knowledge in using office software (e.g., MS Word, MS Excel, MS PowerPoint); practical skills for data and information retrieval.

Teaching material

Mandatory tools for the course

- Computer

Documents in all formats

- Case studies/texts
- Worksheets

Moodle platform

- Upload of class documents
- Assessments

Software

- Other : Loglet Lab 4.0 (available via Internet)

Additional electronic platforms

No items in this list have been checked.

Recommended reading

Main reading material

1. Hinton M., (2006) Introducing Information Management : The business approach. Taylor & Francis, ISBN 978-0-7506-6668-8
 2. T. Modis, Natural Laws in the Service of the Decision Maker: How to Use Science-Based Methodologies to See More Clearly further into the Future. Growth Dynamics, 2013.
 3. Meyer, P.S., Yung, J.W. and Ausubel, J.H. (1999) A Primer on Logistic Growth and Substitution: The Mathematics of the Loglet Lab Software. Technological Forecasting and Social Change, 61(3), 247-271.
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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

No reading material has been provided.

Assessment

List of assessment methods

Final evaluation Last class

Written and oral (20 Min.) / Group / English / Weight : 100 %

Details : Presentation of project results by working teams

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