

# Information Systems for business enterprises

**EM694M02**

## Program

**PGE**  
PGE 2A - SUPPLY CHAIN MANAGEMENT

## UE

Information Systems for business enterprises

## Semester

B

## Discipline

Supply chain management

## Contact hours

20 H

## Number of spots

45

## ECTS

5

## Open to visitors

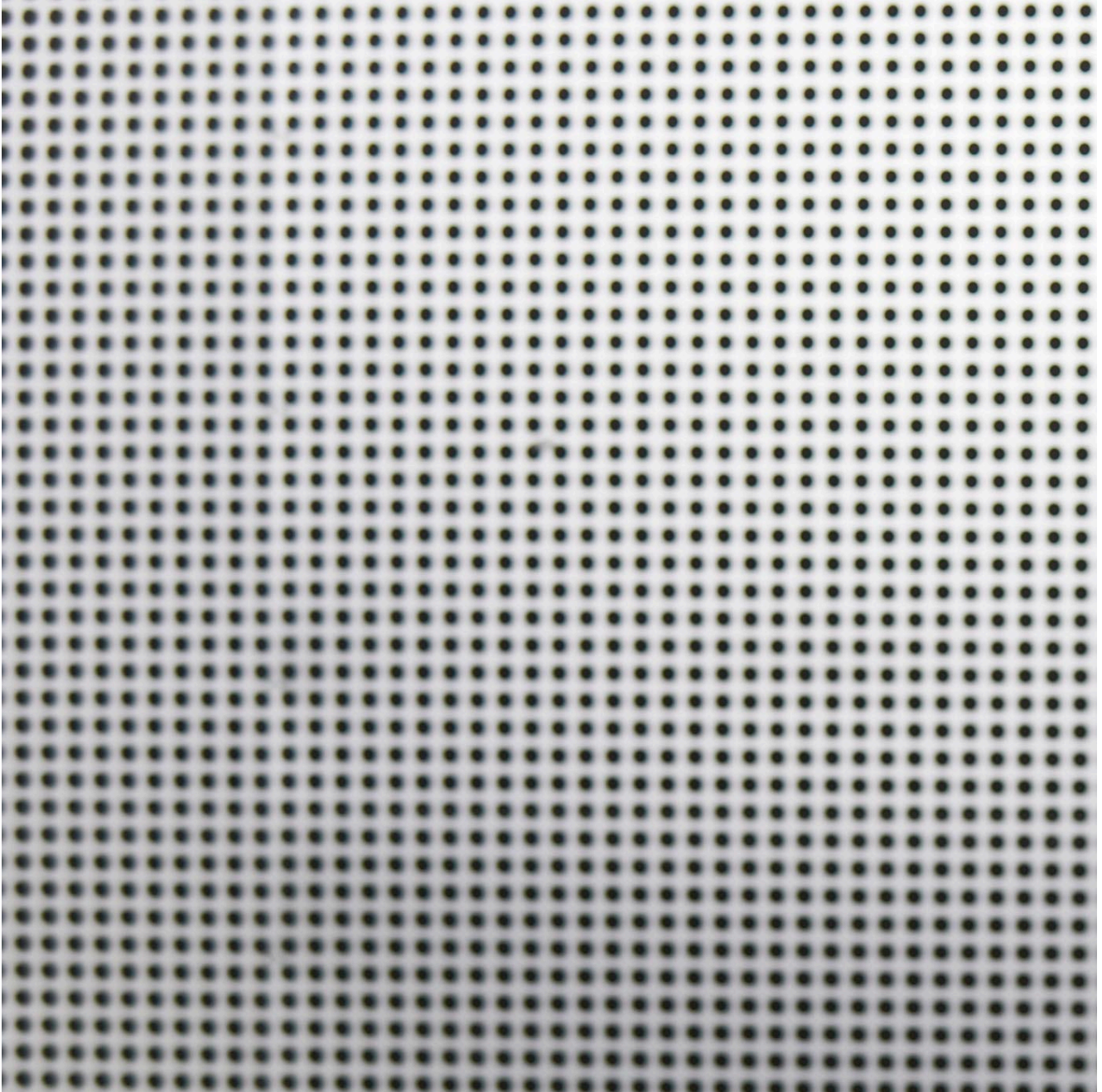
Yes

## Language



## Coordinator

Samia CHEHBI GAMOURA



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## List of lecturers

Lecturer(s)	Email	Contact hours - lecture
Samia CHEHBI GAMOURA	<a href="mailto:samia.gamoura@em-strasbourg.eu">samia.gamoura@em-strasbourg.eu</a>	20 h

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## 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.

### **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.

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## Description

There is no company today that does not rely on its management on an information system. A good information system allows the company to adapt quickly and at best to the changes it knows. It allows the fluidification of work, monitoring and rapid access to information. This module presents the importance of integrated information systems in the enterprise. This module also aims to focus on the IS modeling part, from the idea to the realization of a simple solution (under MS Access). It also presents an opening towards the other tools used in the company (APS, SCR, CRM, SRM, ...).

This course delves into the skills commonly found in today's information systems integration in structures. The student will learn how modeling a real situation and going to create an information system based on values from this real situation. This course will not be limited to theoretical concepts but extends to real-world challenging case studies in order to provide hand-on practical experience in apprehending models and solutions.

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## Teaching methods

### Face-to-face

- Lectures
- Tutorials
- Other :

### In group

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

### Interaction

- Discussions/debates

## Others

**No items in this list have been checked.**

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## **Learning objectives**

### Cognitive domain

Upon completion of this course, students should be able to

- - (level 1) **Identify** the context to be modeled in the enterprise case
  - - (level 2) **Describe** the modeling process through entities-relationships between items of the organization
  - - (level 3) **Apply** the rules of relationships between items in a model
  - - (level 4) **Break down** a complex context into elementary part to make easy modeling in an information system
  - - (level 5) **Construct** a true model (MDD) based on design chart (MCD)
  - - (level 6) **Release** a model in IS support (MS Access)
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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**

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## **Outline**

1. Introduction to integrated IS
  2. Introduction to IS modeling
  3. Entity / Association-MCD model
  4. Rules of transition from the E / A model to the relational model
  5. DBMS
  6. MS Access
  7. Queries
  8. Forms
  9. Reports
  10. Case Study 1: Library Management
  11. Case Study 2: Product Management
  12. Case Study 3: Cinema Management
  13. Presentation of case studies (slides)
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## No prerequisite has been provided

### Knowledge in / Key concepts to master

- MS Excel
  - Google Draw.io
  - MS Access (for beginners)
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## Teaching material

### Mandatory tools for the course

- Computer

### Documents in all formats

- Case studies/texts
- Worksheets

### Moodle platform

**No items in this list have been checked.**

### Software

**No items in this list have been checked.**

### Additional electronic platforms

**No items in this list have been checked.**

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## Recommended reading

Main reading material

1. An Introduction to Database Systems (8th Edition), C. J. Date, 2004.
  2. Modelling and Analysis of Enterprise Information Systems, 2007.
  3. Succeeding in Business with Microsoft Access 2013: A Problem-Solving Approach, De Sandra Cable, 2015.
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Additional literature

**No reading material has been provided.**

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## **EM Research: Be sure to mobilize at least one resource**

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

- Management information systems : managing the digital firm (PEGE Library - EM Strasbourg)

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## **Assessment**

### **List of assessment methods**

#### **Intermediate assessment / continuous assessment 1** Class no. 3

Written and oral (20 Min.) / Group / English / Weight : 30 %

**Details :** Practical Part (Mini-Project & rewarding) (PCS): 30% Practical mini-project by groups. Homework of 1 week. Mini-project on a real-world case study based on a visit/interview to an enterprise. Preparation and defense through a presentation in class. 15min duration for the presentation and 5min for questions/answers. Proceeding by vote for evaluation.

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

#### **Final evaluation** Last class

Written (120 Min.) / Individual / English / Weight : 70 %

**Details :** Theoretical Part (Written Exam) (TWE): 70% Written exam with supervision in class. Duration of 120 minutes (last session). Theoretical and practical questions of real-world problems and case studies to resolve. Individual efforts.

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