

# Informations Systems for business enterprises (EM054M5X)

Program	PGE
Course set (UE) / Credits (ECTS) / Track / Specialization	<b>Module :Systems for business enterprises : 3 ECTS.</b> <ul style="list-style-type: none"><li>• MGA</li></ul>
Discipline	Supply Chain Management
Year	2020
Semester	B
Open for visitors	yes (3 ECTS)
Available spots	42

## Coordinator

**SAMIA CHEHBI GAMOURA**

## Lecturers

Instructor	Population	Email
<b>SAMIA CHEHBI GAMOURA</b>	Population	samia.gamoura@em-strasbourg.eu

## Course format

Working language :	English
Volume of contact hours :	27 h
Workload to be expected by the student :	81 h

## Course track

Track : Attendance

### Attendance track :

Attendance at lectures/tutorials and intermediate/final assessments is mandatory. As in-class work constitutes an essential element of evaluation, any unjustified absence will be penalized (*see Study and Examination Regulations*) and factored into the final grade (*see Assessment*).

### Autonomous track :

Attendance at intermediate/final assessments is mandatory, but students have the option of attending lectures/tutorials.

Attendance at lectures/tutorials and intermediate/final assessments is mandatory for all degrees making up the Master's Program and all degrees involving co-op (*apprentissage*). Attendance track must therefore be selected.

## Contribution of the course to the educational objectives of the program

**How the course contributes 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 communicate ideas effectively, both orally and in writing, in a business context.

## 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.

## Educational organisation

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In class

**Lectures**

**Tutorials**

In groups

**Exercises**

**Projects**

**Case studies/texts**

**Oral presentations**

Interaction

**Discussions / debates**

## Learning outcomes

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**Upon completion of this course, students should be able to :**

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

## Outline

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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)

## Prerequisites

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**Key concepts to understand :**

**Knowledge of :**

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

## Teaching material

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**Documents in all formats**

- Worksheets
- Guide
- Case studies

**Software**

- Office Pack (Word, Excel, PowerPoint, Access)

## Recommended reading

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**Major works :**

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.

**Further reading :**

**Research works by EM Strasbourg :**

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

## Assessment

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### **Intermediate evaluation / continuous assessment 1 : session n°3**

written + oral (20 min) / in group / English / weighting : 30%

additional information : 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 serves to measure LO1.1, LO2.1, LO2.3**

### **Final assessment : last session**

written (120 min) / individual / English / weighting : 70%

additional information : 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 serves to measure LO1.2, LO2.1**

## Grounds for expulsion from classes

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Behaviors such as

**arriving late, leaving early, or exiting the classroom at inopportune moments during class**

**ostentatiously eating or drinking in class**

**using smartphones or laptops for non-class-related purposes**

**reading texts unrelated to the course**

**discussing topics unrelated to the course**

**disrespecting the lecturer**

may lead to expulsion from the class/course.