

# Informations Systems for business enterprises (EM054M5X)

Program	PGE
Module / ECTS / Path / Specialisation	<b>Module :Systems for business enterprises : 3 ECTS.</b> <ul style="list-style-type: none"><li>● MGA</li></ul>
Discipline	Supply Chain Management
Year	2019
Semester	B
Open for visitors	yes (3 ECTS)
Available places	42

## Coordinator

**SAMIA GAMOURA**

## Lecturers

Instructor	Population	Email
<b>SAMIA GAMOURA</b>	Population	<a href="mailto:samia.gamoura@em-strasbourg.eu">samia.gamoura@em-strasbourg.eu</a>

## 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 lecture / tutorial classes and intermediate / final exams is mandatory. As evaluation of in class work constitutes an essential element of grading, any absence will be penalized and is taken into account for grading purposes (see academic rules and regulations).

**"Autonomous" track :**

Attendance at intermediate / final exams is mandatory, but students are free to attend lecture / tutorial classes.

For all Master programs and all other programs realized in the form of dual internships (apprentissage), attendance at lecture / tutorial classes and intermediate / final exams is entirely mandatory. Therefore, only the "Attendance" track can be selected.

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

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How the course contributes to the programme :

## Description

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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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Such behaviors as...

**arriving late, leaving early or unannounced leaving of the classroom during class time**

**disruptive eating or drinking in class**

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

**reading non class-related documents**

**chatting on non class-related issues**

**showing disrespect towards lecturers**

... may lead to expulsion from classes.