COURSE CODE	EMADLM11	CREDITS	-
LEVEL	PGE – PROGRAMME GRANDE ECOLE	CONTACT HOURS	20 HOURS
CONTEXT	MANAGEMENT		
TITLE	INFORMATION SYSTEMS FOR BUSINESS ENTERPRISES		

PRE-REQUISITES

Fundamentals in enterprises organizations

COURSE 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.

COGNITIVE DOMAIN

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

Lev. 1   identify the context to be modeled in the enterprise case
Lev. 2   describe the modeling process through entities-relationships between items of the organization
Lev. 3   apply the rules of relationships between items in a model
Lev. 4   break down a complex context into elementary part to make easy modeling in an information system
Lev. 5   construct a true model (MDD) based on design chart (MCD)
Lev. 6   release a model in is support (MS access)

EXAM ORGANIZATION

Practical Assessed Works (PAW): 30%
Practical Part (Case Studies and Mini-Project) (PCS): 30%
In this part you have two types of practical works:
- Case studies: Practical home-works for a given topic (by groups or individually) for a duration evaluated to 3 hours. The defense with a presentation must be in the class or online live.

- Tests QCM, only for the asynchronous sessions: Automated tests in Moodle (Quiz) at all the end of online sessions with content, in order to check if you have actually followed the video of the course/session. 2 attempts are allowed.

This evaluation serves to measure LO1.1, LO2.1, LO2.3

Theoretical Written Exam (TWE): 70%
Theoretical Part (Written Exam) (TWE): 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

Final mark = (1/3 PAW + 2/3 TWE)

PLAN

- **Part 1:**
- Information System
  - Introductive Example
  - Concept
  - Modelling
  - Conceptual Data Modeling (CDM)
    - Entity Relationship Model (ERM)
  - Logical Data Modeling (LDM)
    - Structure
    - Organization
  - Physical Data Modeling (LDM)
- **Part 2:**
- Data Base Management System (DBMS)
  - Concept of Relashionship Data Base Management System
  - Introduction of Access
  - Structure
    - Tables
    - Forms
    - Queries