


5.00 credits

30.0 h + 15.0 h

Q1

Teacher(s)	Courtain Sylvain (compensates Fouss François) ;Fouss François ;
Language :	French
Place of the course	Mons
Main themes	<p>Context</p> <ul style="list-style-type: none"> • General introduction to databases. • Database management systems. • Sustainable data management (issues, actors, key factors and indicators, governance, etc.). <p>Application</p> <ul style="list-style-type: none"> • Design of a relational database. • Querying a relational database: SQL language. • Design of an interactive application for managing a relational database.
Learning outcomes	<p>At the end of this learning unit, the student is able to :</p> <p>Given the « competencies referential » linked to the LSM Bachelor in Management and Business Engineering, this course mainly develops the following competencies:</p> <ul style="list-style-type: none"> • 2.1. Understand the basic concepts and theories in each of the fields of management and economics. • 2.2. Acquire a knowledge base in human science and law. • 3.1. Understand and selectively use scientific texts and works in French and English. • 3.2. Apply clear and structured analytical reasoning, conceptual frameworks and science-based models to describe and analyse a simple but concrete problem and offer a solution. • 6. Become a team player 1 • 7. Manage a project • 8.1. With the target audience in mind, communicate information, ideas, solutions and conclusions with written and oral fluency and in a clear, structured and well-argued manner. <p>At the end of the class, the student will be able to:</p> <ul style="list-style-type: none"> • understand the main challenges of sustainable data management; • design a database adapted to the company's management information system, and use a relational database management system; • master the SQL language.
Bibliography	<ul style="list-style-type: none"> • HAINAUT J.-L. (2022), Bases de données : Concepts, utilisation et développement 5ed. Dunod. • GARDARIN G. (2003), Bases de données, Eyrolles. • ELMASRI R., NAVATHE S. (2010), Fundamentals of Database systems, 6th Ed., Addison-Wesley.
Faculty or entity in charge	CLSM

Programmes containing this learning unit (UE)

Program title	Acronym	Credits	Prerequisite	Learning outcomes
Bachelor : Business Engineering	INGM1BA	5		
Bachelor in Management	GESM1BA	5		