


5.00 credits

30.0 h + 15.0 h

Q2

Teacher(s)	Fouss François ;
Language :	French
Place of the course	Mons
Main themes	<p>Context</p> <ul style="list-style-type: none"> <li>• Digital world, digital transformation and business intelligence.</li> <li>• Impacts, roles and challenges of digital technology in a world in transition, and the digital responsibility of organisations/companies.</li> </ul> <p>Technical basics</p> <ul style="list-style-type: none"> <li>• Binary language and computer logic.</li> <li>• Components and architecture of a computer.</li> <li>• Introduction to algorithms, programming languages.</li> <li>• Computer networks.</li> </ul>
Learning outcomes	<p><b>At the end of this learning unit, the student is able to :</b></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"> <li>• 1.1 Demonstrate the ability to reason independently and adopt a considered and critical approach to knowledge (academic and common sense).</li> <li>• 2.1 Understand the basic concepts and theories in each of the fields of management and economics.</li> <li>• 3.1. Understand and selectively use scientific texts and works in French and English.</li> <li>• 9.1 Self-management: define your priorities, plan ahead and organise all aspects of your work over time, be rigorous and structured in your approach.</li> </ul> <p>1</p> <p>At the end of the class, the student will be able to:</p> <ul style="list-style-type: none"> <li>• place the digital technology in its organizational and societal contexts, and understand its main impacts and challenges;</li> <li>• master the basic concepts of computer science;</li> <li>• understand the functioning of computers through the understanding of computer logic and the introduction to algorithmics.</li> </ul>
Bibliography	<ul style="list-style-type: none"> <li>• BROOKSHEAR J.G. (2011), Computer Science (11<sup>th</sup> Edition), Pearson Education.</li> <li>• SNYDER L. (2012), Fluency with Information Technology: Skills, Concepts, and Capabilities (5<sup>th</sup> Edition), Prentice Hall.</li> </ul>
Faculty or entity in charge	CLSM

<b>Programmes containing this learning unit (UE)</b>				
Program title	Acronym	Credits	Prerequisite	Learning outcomes
Bachelor : Business Engineering	<a href="#">INGM1BA</a>	5		
Bachelor in Management	<a href="#">GESM1BA</a>	5		