

Teacher(s)	Burnay Corentin (compensates Jourquin Bart) ; Jourquin Bart ;
Language :	French
Place of the course	Mons
Main themes	<p>Web-based Integrated Information Systems have become essential for our organizations. The recent development of teleworking has made this need for dedicated web applications (i.e., application software hosted on a server) even more important. This is true not only for large companies, but also for SMEs and startups for which such tools offer ideal solutions.</p> <p>Completing the teaching units previously followed in the Business Engineering track (information systems, programming, databases, etc.), this lecture aims to provide students with all the additional tools necessary to master the ins and outs of development, operation and maintenance of a modern web application. It includes elements of Internet architecture, web architecture, web application development and security.</p>
Learning outcomes	<p><b>At the end of this learning unit, the student is able to :</b></p> <p><b>Competencies</b></p> <p>Given the « competencies referential » linked to the LSM Master in Management and in Business Engineering, this course mainly develops the following competencies:</p> <p>1</p> <ul style="list-style-type: none"> <li>• 2.2 Master highly specific knowledge in one or two areas of management: advanced and current research-based knowledge and methods.</li> <li>• 3.3 Consider problems using a systemic and holistic approach: recognize the different aspects of the situation and their interactions in a dynamic process.</li> <li>• 4.4 Reflect on and improve the content, processes and goals of professional practices.</li> <li>• 5.1 Understand the inner workings of an organization: develop a global approach and integrate the internal logic used, within the organization.</li> <li>• 7.1 Analyse a project within its environment and define the expected outcomes: identify what is at stake, the required outcomes and the environmental constraints; clearly define the project objectives and associate the performance indicators.</li> </ul>
Evaluation methods	<ul style="list-style-type: none"> <li>• Written exam during the mid-term week (50%)</li> <li>• Oral presentation of a case during the classes (40%)</li> <li>• Level of participation in the course (10%)</li> </ul>
Teaching methods	<ul style="list-style-type: none"> <li>• Lectures (in class or via Teams)</li> <li>• Readings</li> <li>• Case studies (personal work)</li> </ul>
Content	<ul style="list-style-type: none"> <li>• Cloud based ERP's</li> <li>• SaaS, PaaS, IaaS...</li> <li>• Internet architecture (TCP/IP model, routing, etc.)</li> <li>• Web architectures (client-server environment topology, etc.)</li> <li>• The components, standards and languages used for Web applications</li> <li>• Computer and network security</li> </ul>
Inline resources	Student Corner (Mons)
Bibliography	Management Information Systems: Managing the Digital Firm, 17th edition, Kenneth C. Laudon and Jane P. Laudon, Pearson (2021)
Faculty or entity in charge	CLSM

<b>Programmes containing this learning unit (UE)</b>				
Program title	Acronym	Credits	Prerequisite	Learning outcomes
Master [120] : Business Engineering	INGM2M	5		