

Due to the COVID-19 crisis, the information below is subject to change, in particular that concerning the teaching mode (presential, distance or in a comodal or hybrid format).


5 credits	30.0 h	Q2
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Teacher(s)	Vanderdonckt Jean ;
Language :	French
Place of the course	Louvain-la-Neuve
Main themes	This course thoroughly examines specific themes for transforming business problems into information systems: 1. The identification of data in order to transform them into information useful for the information system, 2. The application of a design methodology for information systems, 3. The use of analyzing techniques for problem solving by information systems. At the end of this course, the student should be able to elaborate various models used for designing an information system.
Aims	<p>At the end of the class, students should be able to - Understand the major concepts of information system - Identify data which are required to be managed in an information system so as to transform them into relevant information - Decompose a project for an information system into applications, phases, and functions - Structure in time and space the phases of an information system - Assign the phases of the information system to organisational units depending on the goals of the information system</p> <p>----- <i>The contribution of this Teaching Unit to the development and command of the skills and learning outcomes of the programme(s) can be accessed at the end of this sheet, in the section entitled "Programmes/courses offering this Teaching Unit".</i></p>
Evaluation methods	Due to the COVID-19 crisis, the information in this section is particularly likely to change. The evaluation associated to this course consists of a multiple-choice questionnaire related to the four models of the course: class diagram, static diagram, dynamic diagram, and dataflow diagram. The questionnaire will be administrated via an on-line system (20 points).
Teaching methods	Due to the COVID-19 crisis, the information in this section is particularly likely to change. The course follows a model-based approach for designing management information systems where conceptual models are devised for various aspects of the systems, as follows: <ul style="list-style-type: none"> • A domain model is expressed as a UML V2.5 Class diagram, with attributes, methods, and relationships. • A function static model expresses the static structuring of functions: a project is decomposed into applications, which are decomposed into phases and functions. • A function dynamic model expresses the dynamic aspects of functions; the model expresses the ordering in time and space of phases. • A flow diagram expresses how phases are physically distributed against organizational cells.
Content	This course concerns a first introduction to the design of management information systems, which are referred to as the process of and software support for collecting, storing, updating,
Inline resources	All resources (slides, report template, examples, case studies, references) are available on-line at the Moodle corresponding course: https://moodleucl.uclouvain.be/course/view.php?id=10853
Bibliography	Joseph Gabay, David Gabay, UML 2 Analyse et conception - Mise en oeuvre guidée avec études de cas , Dunod, Paris. Francois Bodart, Yves Pigneur, Conception assistée des systèmes d'information - Méthode, modèles, outils , Eyrolles, Paris.
Other infos	Prerequisite : none, but knowing the fundamental principles of algorithmic is considered as an asset.
Faculty or entity in charge	CLSM

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Evaluation methods	Students will be gathered into groups of 2 to 3 members and will select a topic for the course assignment according to requirements specified during the first course. The topic consists of a one-page textual scenario of a case study.
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Based on this continuous evaluation, the course score will consist of the score given to this course assignment, whose deadline is the last course.

Programmes containing this learning unit (UE)				
Program title	Acronym	Credits	Prerequisite	Aims
Master [120] in Motor Skills: Physical Education	EDPH2M	5		
Master [60] in Management	GEST2M1	5		