

## Faculty of Economic, Social and Political Sciences



### ECGE1215 Information Technology in Economics and Management

[30h+20h exercises] 4 credits

**Teacher(s):** Marco Saerens  
**Language:** French  
**Level:** First cycle

#### Aims

This module examines basic concepts in Information Technology, such as relational databases and object-oriented programming languages. By the end of this course, in addition to mastering basic concepts in Information Technology, students should be able to:

- write a simple program in JAVA or VBA.
- analyse a problem and find a programming solution.

#### Main themes

The course comprises:

- an introduction to computer systems (material components, basic software) - program lifecycles
- an introduction to relational databases.
- an introduction to basic concepts of the languages used in object-oriented programming, illustrated with JAVA and VBA (objects, variables, expressions, control structures, types of data, methods, etc).
- systematic methods of constructing standard programs and algorithms: problem modelling and specification - top-down reasoning and rudiments of UML.

#### Content and teaching methods

Students will have the opportunity to practise programming in practical exercise sessions.

**Other information (prerequisite, evaluation (assessment methods), course materials recommended readings, ...)**

Support : J.Lewis & W. Loftus, Java Software Solutions, 4th edition. Addison-Wesley.

#### Other credits in programs

<b>ECGE12BA</b>	Deuxième année de bachelier en sciences économiques et de gestion	(4 credits)	Mandatory
<b>INGE12BA</b>	Deuxième année de bachelier en ingénieur de gestion	(4 credits)	Mandatory