Course Specifications
Valid as from the academic year 2018-2019

Course
Informatics (F000886)

Lecturers in academic year 2018-2019
Poels, Geert
EB24
lecturer-in-charge

Course offerings and teaching methods in academic year 2018-2019
A (semester 2) Dutch guided self-study 15.0 h
lecture 30.0 h

Offered in the following programmes in 2018-2019
Bachelor of Science in Economics 5 A
Joint Section Bachelor of Science in Economics, Business Economics and Business Engineering 5 A
Bachelor of Science in Business Engineering 5 A
Bachelor of Science in Business Economics 5 A

Teaching languages
Dutch

Keywords
Informatics, information- and communication technology

Position of the course
The course is an introduction to Computer Science for students in Economics, Applied Economics and Business Engineering. We study the foundational principles of Computer Science and core aspects of a wide range of information and communication technologies (ICT): data storage, computer architecture, machine language, the programs of the operating system, principles of computernetworks and Internet, algorithms, programming, data structures and databases. The course also prepares for the more advanced study of Business Informatics, in which ICT is used to construct systems that support the operation and management of organizations.

Contents
1 Theoretical part: Fundamentals of computer science and information and communication technologies (hardware, software, networks, databases)
   • Data storage
   • Data processing
   • Operating systems
   • Networks and Internet
   • Algorithms
   • Programming Languages
   • Data abstraction
   • Database systems
2 Practical part (Guided study): spreadsheet software

Initial competences
No specific knowledge is required. Prior knowledge of PC use, graphical operating systems (e.g., Windows) and Internet is useful.

Final competences
1 Demonstrate knowledge of fundamentals of computer science and information and communication technologies and being able to apply this knowledge.
2 Be able to use spreadsheet-software when modelling business problems.

Course size (nominal values; actual values may depend on programme)
Credits 5.0 Study time 150 h Contact hrs 45.0 h

Teaching languages
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Conditions for credit contract
Access to this course unit via a credit contract is unrestricted: the student takes into consideration the conditions mentioned in ‘Starting Competences’

Conditions for exam contract
Access to this course unit via an exam contract is unrestricted

Teaching methods
Guided self-study, lecture

Extra information on the teaching methods
Ex cathedra classes for the theoretical part, interrupted by short in-class exercises.
Guided study: self-study package that we composed for the study of MS Excel (spreadsheet software): textbook, videocasts (MINERVA), selftest exercises (Curios - MINERVA), solutions of the exercises, possibility of individual guidance (on appointment).

Learning materials and price
http://www.pearsonglobaleditions.com/Sitemap/Brookshear/
Additional material available at Minerva:
• Powerpoint presentation and additional notes
• Example multiple-choice questions
• Guided study package Excel with videocasts, Curios exercises, solutions of the exercises, example exam questions
Cost: 100 euro

References

Course content-related study coaching
Via Minerva using tools like Forum, Student Publications, Dropbox, Curios.
Individual guidance for the guided study part MS Excel is possible (make appointment with the responsible teacher)

Evaluation methods
end-of-term evaluation

Examination methods in case of periodic evaluation during the first examination period
Written examination with multiple choice questions, skills test

Examination methods in case of periodic evaluation during the second examination period
Written examination with multiple choice questions, skills test

Examination methods in case of permanent evaluation

Possibilities of retake in case of permanent evaluation
not applicable

Extra information on the examination methods
A Multiple-choice exam of the theoretical part
Here the critical insights and the acquired skills concerning the application of the covered concepts and techniques are examined. Exam on the PC of the practical part.

Calculation of the examination mark
Weighted average of the scores of the multiple-choice exam (2/3) and the PC-exam (1/3)
For the multiple-choice exam the mandatory 'standard setting' of Ghent University is used.

Facilities for Working Students
None

(Approved) 2