Course Specifications
Valid as from the academic year 2018-2019

Course
Enterprise Architecture (F000897)

Lecturers in academic year 2018-2019
Poels, Geert
EB24 lecturing

Course offerings and teaching methods in academic year 2018-2019

A (semester 1)
English
lecture 30.0 h
lecture: plenary exercises 6.25 h
group work 8.75 h

Offered in the following programmes in 2018-2019

<table>
<thead>
<tr>
<th>Programme</th>
<th>crds</th>
<th>offering</th>
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<tbody>
<tr>
<td>Master of Science in Complementary Studies in Business Economics (main subject Business Economics)</td>
<td>4</td>
<td>A</td>
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<tr>
<td>Master of Science in Business Engineering (main subject Data Analytics)</td>
<td>4</td>
<td>A</td>
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<tr>
<td>Master of Science in Business Engineering (main subject Finance)</td>
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<tr>
<td>Master of Science in Business Engineering (main subject Operations Management)</td>
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<tr>
<td>Exchange programme in Economics and Business Administration</td>
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<td>A</td>
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Teaching languages
English

Keywords
IT Management, Business/IT Alignment, Enterprise Modeling, Enterprise Architecture, Disruptive impact of IT

Position of the course
A specialized course focusing on the use of ICT-based systems in organisations. The course builds upon earlier acquired knowledge and skills with respect to Business Informatics and Computer Science. The perspective taken is that of enterprise engineering, i.e., the joint conception, design, engineering and evolution of business, application and technological infrastructures.

Contents
Course topics:
1 Conceptual framework for IT Management - the core concept of Business/IT Alignment
2 Value of IT for organisations - disruptive impact of IT
3 Enterprise modeling - conceptual analysis of the use/value of IT in organisations
   1 goal modeling
   2 value modeling & business model representation
   3 capability modeling & service modeling
4 Enterprise architecture - conceptual design of IT-based enterprise infrastructure
   1 concepts, frameworks and methods
   2 ArchiMate - a standard language for EA
   3 Case-study
Guest lectures on actual topics of ICT Management

Initial competences
- Knowledge of the fundamental concepts and techniques of Computer Science and Information and Communication Technologies (ICT)
- Knowledge of the development of information systems and the role that information
systems play in the operation and management of organisations
• Knowledge of and being able to work with a general-purpose modeling language like UML

Final competences
1 Having acquired an understanding of the complex relation between business, IT, strategy and operations in the context of enterprise models and enterprise architecture
2 Knowledge of and being able to apply relevant concepts, models, methods and techniques of enterprise modeling and enterprise architecture
3 Being able to present a contemporary topic of (innovative) (disruptive) IT use in organisations, which was analysed using the concepts and instruments of the conceptual framework for IT management that was used for the course

Conditions for credit contract
Access to this course unit via a credit contract is determined after successful competences assessment

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

Teaching methods
Group work, lecture, lecture: plenary exercises

Extra information on the teaching methods
The pedagogic approach is a combination of:
• lectures
• guest speakers
• practice sessions
• Group assignment and student presentations

Learning materials and price
course with slides and notes + reader with articles, manuals, professional standards, reports, etc.

References
A reader with papers and references to relevant literature and research (including the research of the UGent Business Informatics research group) is made available via Minerva

Course content-related study coaching
Via Minerva: Forum, Student Publications, Dropbox
Individual guidance is possible

Evaluation methods
end-of-term evaluation and continuous assessment

Examination methods in case of periodic evaluation during the first examination period
Open book examination

Examination methods in case of periodic evaluation during the second examination period
Open book examination

Examination methods in case of permanent evaluation
Oral examination

Possibilities of retake in case of permanent evaluation
examination during the second examination period is possible in modified form

Extra information on the examination methods
Open book exam with multiple choice questions and open answer questions
Presentation of a group assignment related to the use of IT in organisations. Students should demonstrate their ability to apply the framework for IT management studied during the course to a self-selected theme.

Calculation of the examination mark
The score is the weighted sum of the exam score (80%) and the oral examination by means of the group presentation (20%).

Facilities for Working Students
None

(Approved)