APPLIES TO ACADEMIC YEAR 2012/2013

INF 2022 Enterprise Architecture and System Requirements - RE-SIT EXAMINATION

Programme
Re-sit examination

Responsible for the course
Bo H Christensen

Department
Department of Leadership and Organizational Behaviour

Term
According to study plan

ECTS Credits
7,5

Language of instruction
Norwegian

Introduction
Enterprise Architecture and System Requirements is a course specifically for the bachelor's programme in IT-management. The course covers strategic use of IT as a prerequisite for value creation, and how IT systems can add value and contribute to enduring competitive advantage. The students will be taught how to model an enterprise and gain insight into how the strategy, vision and goals of an enterprise are connected to structures and processes and how they result in value creation, profitability and competitiveness. The course is to great extent based casework and other practical exercises related to enterprise modelling. It has an emphasis on a smooth transition to the course System Architecture and System Planning in the following term.

Learning outcome
The course will provide knowledge on the role of IS/IT for value creation, profitability and competitiveness. The students should be able to model central parts of an enterprise with an emphasis on an understanding and improvement of the enterprise. Around 50% of the course will be centred around understanding, and 50% on practical modelling.

Acquired knowledge
- Understanding the need for different levels of abstraction depending on purpose and target audience.
- An integrated perspective on processes, structures and computer systems in an enterprise.
- Knowledge on the potential of IT to support a value configuration.
- Knowledge on how enterprise models can form a basis for analysis and improvement of the enterprise.

Acquired Skills
- Ability to use one or several architectural frameworks.
- Ability to describe an enterprise with the modelling language UML
- Ability to identify, prioritise and describe system requirements on the basis of the enterprise description.

Reflection
- Understanding the role of cooperation and building bridges between players and stakeholders within the enterprise and its surroundings.
- Conscious awareness of the relationship between structural changes and corporate culture.

Prerequisites
INF 3402 IT in Organizations or equivalent.

Compulsory reading
Books:
Eriksson, Hans-Erik and Magnus Penker. 2000. Business modeling with UML : business patterns at work. Wiley
Whittle, Ralph and Conrad B. Myrick. 2005. Enterprise business architecture : the formal link between strategy and results. Auerbach Publications. Kapitlene 1-4.

Other:
Kompendium med utvalgte artikler.

Recommended reading
Books:
Podeswa, Howard. 2010. UML for the IT business analyst : a practical guide to requirements gathering using the Unified Modeling Language. 2nd ed. Course Technology/Cengage Learning
Reynolds, Chris. 2010. Introduction to business architecture. Course Technology
Whittle, Ralph and Conrad B. Myrick. 2005. Enterprise business architecture : the formal link between strategy and results. Auerbach Publications. Kapitlene 5-8.

Other:
Sparx Systems. 2007. UML Tutorials. Using UML Part One – Structural Modeling Diagrams. Kan lasts ned fra http://www.sparxsystems.com.
Sparx Systems. 2007. UML Tutorials. Using UML Part Two – Behavioral Modeling Diagrams. Kan lastes ned fra http://www.sparxsystems.com.

Course outline

Understanding and modelling the enterprise
- Understanding the enterprise
- The link between strategy and results
  - Perspectives
  - Configurations
- The role of the IT-system
- Approaches to modelling
  - Purpose and limitations
  - Alternative frameworks

Basic modelling UML
- Basic elements
- Diagram types
  - Structural diagrams
  - Behavioural diagrams
- Architectural modelling
  - Business perspectives
  - Becoming effective: rules and patterns

From enterprise architecture to software architecture
- The software development process
- Modelling software architecture

Computer-based tools

General usage of the Internet and It's learning. I addition students will use modern solutions for project planning and interaction. For drawing diagrams Microsoft Visio (extension to MS Office) may be used.

Learning process and workload

The course will be conducted with 27 hours of lectures in the classroom. In addition, there will be given supervision, individually or in groups, or electronically.

When it comes to casework and exercises, these will mainly be conducted and presented in a group context.

Use of hours:

Activity	Hours
Classroom lectures (active participation)	27
Preparation for lectures / reading literature	63
Working on the final assignment	45
Working on cases	45
Own work with IT tools (e.g., Visio)	20
Recommended work hours in total	**200**

Use of hours
27 hours – Classroom lectures
6 hours – Supervising exercises and casework
6 hours – Administering the learning process, feedback
6 hours – Supporting tool usage
45 hours in total

Examination
A one week term paper conculdes the course. The term paper may be solved individually or in groups of up to three students.

Examination code(s)
INF 20223 Term paper, counts 100% to obtain final grade in INF 2022 Enterprise Architecture and System Requirements, 7.5 credits.

Examination support materials
All support materials allowed.
Support materials at written examinations are explained under exam information in our web-based Student handbook. Please note use of calculator and dictionary.
http://www.bi.edu/studenthandbook/examaids

Re-sit examination
This course was lectured for the last time autumn 2011. Re-sit examinations will be offered autumn 2012 and spring 2013.

Additional information