



APPLIES TO ACADEMIC YEAR 2014/2015

ELE 3731 Information Technology in Organizations

Programme

Elective, Exchange Program

Responsible for the course

Ragnvald Sannes

Department

Department of Leadership and Organizational Behaviour

Term

According to study plan

ECTS Credits

7,5

Language of instruction

English

Introduction

Information technology is a key element in globalization, innovation and collaboration. Seamless integration of local, inter-organizational and global business processes is enabled by information technology. Service and product innovation is based on the use of information technology. The Internet and the world-wide-web have revolutionized customer service and provided a basis for new and innovative business models.

Organizations use information system and information technology to support the current business by improving performance (automation and transformation) and to develop future business through innovation (e.g. new business models).

The course applies a blended learning model combining class sessions, online sessions and self-directed learning activities and assignments. Students will get hands-on experience with digital tools during coursework.

Learning outcome

Acquired knowledge

On completion of the course the students will

- Understand how information systems and information technology enable and facilitate business innovation and change
- Be familiar with major trends in technology development
- Be familiar with commonly used tools for communication, cooperation and coordination, and social media
- Have knowledge of elements and relationships in an information technology infrastructure
- Understand the role of technology in business processes and service provision

Acquired skills

On completion of the course the students will be able to:

- Describe and analyse the use of information technology within business, industry and at value system levels
- Describe an IT infrastructure
- Develop and describe a requirements specification for an information system
- Choose and apply feasible techniques and frameworks for assignments and communication

Reflection

The students should understand the role of information systems and information technology in organizations and society. They should also be able to reflect upon ethical issues concerning information security and privacy.

Prerequisites

Compulsory reading

Books:

Laudon, Kenneth C., Jane P. Laudon. 2014. Management information systems : managing the digital firm. 13th ed., Global ed. Pearson Education

Lynch, Patrick J., Sarah Horton. 2008. Web style guide : basic design principles for creating web sites. 3rd ed. Yale University Press. Ch. 1-7. Free online-version at www.webstyleguide.com. Useful resource for the term paper.

Other:

Reading package of selected papers and links to other course material will be published on Itslearning

Recommended reading

Books:

Brynjolfsson, E. and Andrew McAfee. 2014. The Second Machine Age : work, progress, and prosperity in a time of brilliant technologies. W. W. Norton. Utgis februar 2014
Friedman, Thomas L. 2009. Hot, flat, and crowded : why the world needs a green revolution - and how we can renew our global future. Release 2.0, updated and expanded ed. Penguin
Osterwalder, Alexander and Yves Pigneur. 2010. Business model generation : a handbook for visionaries, game changers, and challengers. Wiley. The part we use in the course is available as a free download.

Course outline

Topic I: The business level issues

- The role of information systems and information technology in business development and innovation
- Value creation and information technology
- Business processes and information technology
- Technology development - trends and the speed of change

Topic II: Information systems and information technology issues

- How to describe the requirements for an information system
- Information systems development approaches
- The requirements specification
- The information resource - data and data modeling
- Business processes - process modelling
- The user interface - structure and principles

Topic III: Personal use of information technology

- Personalization, communication and knowledge sharing in a world of social media
- Blogs, wikis, social networks, twitter and other publication channels
- Information mobility

Computer-based tools

The student will be use to a variety of digital tools during the course.

Learning process and workload

The course includes 27 hours of lectures. In addition there will be learning activities such as group assignments, presentations and feedback.

Activity	Hours
Participation in teaching sessions	27
Preparation for teaching sessions, reading literature	63
Work on term paper	60
Work on assignments and essay	50
Average recommended study hours	200

Use of hours

27 hours - Lectures

8 hours - Supervision and feedback, assignments and course wiki

6 hours - Administration of the learning process, incl. feedback

4 hours - Support student in course tools

45 hours total

Examination

1. Individual written essay - Term paper (50% of the final grade)

The individual assignment is an analysis of an information system or service written in the format of an academic report. The assignment starts in the beginning of the term and includes a collaborative writing process. Students develop drafts early in the course that are available to other students for comments and contributions before they individually edit a final version.

2. Project paper (50% of the final grade)

The project assignment is a group project where students work an existing or new information system or service and develops a conceptual description of a new or improved solution. The project can be done in groups of 2-3 students. The project report is due a few weeks after the final class session.

Examination code(s)

ELE 37313 Individual Term paper, counts 50% towards the final grade, 7.5 ECTS

ELE 37314 Project paper, counts 50% towards the final grade, 7.5 ECTS

Examination support materials

All support materials are allowed.

Examination support materials at written examinations are explained under examination information in the student portal @BI. Please note use of calculator and dictionary. https://at.bi.no/EN/Pages/Exa_Hjelpemidler-til-eksamen.aspx

Re-sit examination

A re-sit is held in connection with the next scheduled examination in the course. Students who are taking a new examination must take the course all over including all parts of the assessment.

Additional information