Linnæus University

Jnr: 2019/944-3.1.2.2

Course syllabus

Faculty of Technology
Department of Informatics

5IK501 IS/IT för organisering, kommunikation och koordinering II, 15 högskolepoäng

IS/IT for Organizing, Communicating, and Coordinating II, 15 credits

Main field of study
Informatics

Subject Group
Informatics/Computer and Systems Sciences

Level of classification
Second Level

Progression
A1F

Date of Ratification
Approved 2016-04-25
Revised 2019-03-13 by Faculty of Technology. Objectives, content, examination, assessment methods and literature.
The course syllabus is valid from autumn semester 2019

Prerequisites
30 credits of completed courses in Informatics at advanced level or equivalent.

Objectives

Knowledge and understanding
After completing the course students should be able to:

- identify and describe digital technologies' strategic role for contemporary organisations and how this role has evolved over time
- describe and explain concepts and models that can be used to explore digital transformation of organizations and businesses
- identify and describe systems thinking approaches and methods for digital transformation of organizations and businesses.

Skills and abilities
After completing the course students should be able to:

- analyse strategic use of digital technologies for different types of organisations.
- analyse and identify challenges, opportunities and practices associated with the formulation of organizational digital strategies.
- design process models for planning, managing and leading organizational digital transformation.

Evaluation ability and attitude
After completing the course students should be able to:

- from a holistic perspective, critically analyse and reflect on strategic use of digital technologies for different kinds of organisations.
- identify and value the core content of the literature used in the course.
- reflect on ethical issues in relation to management and governance of organizational digital resources and relate to impacts on different involved stakeholder groups.

Content
The course focuses on the interplay between organisational and IS strategies including implications of such interplay on strategic intentions, business initiatives, organizational practices and structures.

The course includes the following elements:

- theories and approaches for strategizing in IT-enabled strategic landscapes
- the concept of digital capability in the organizational context and its implications on organisational practices
- systems thinking models and methods, including a holistic perspective of digital and organizational strategies

Type of Instruction
Teaching consists of live and recorded lectures, tutorials, supervised group work and seminars.

Examination
The course is assessed with the grades A, B, C, D, E, Fx or F.
The grade A constitutes the highest grade on the scale and the remaining grades follow in descending order where the grade E is the lowest grade on the scale that will result in a pass. The grade F means that the student's performance is assessed as fail (i.e. received the grade F).

Assessment of student performance is made through:
1. Three themed written exams based on the course literature.
2. An individual argumentative essay on the concept of digital transformation with a defined focus on one of the themes emerged from the literature.
3. Group assignment containing a report and oral presentation of applying theoretical material covered in the course on specific phenomenon.

The different examination items are weighted as follows:
1. 30 % (3 separate 10% written exams)
2. 30 % (argumentative essay)
3. 40 % (group work: report and oral presentation)

To obtain the minimum E grade, at least E on all examination items are required.

Course Evaluation
During the course or in close connection to the course, a course evaluation is to be carried out. The result and analysis of the course evaluation are to be communicated to the students who have taken the course and to the students who are to participate in the course the next time it is offered. The course evaluation is carried out anonymously. The compiled report will be filed at the Faculty.

Other
Grade criteria for the A–F scale are communicated to the student through a special document. The student is to be informed about the grade criteria for the course by the

start of the course at the latest.

Required Reading and Additional Study Material

Course book

Galliers, R.D. and Stein, M.K. eds., 2017. The Routledge Companion to Management Information Systems. Routledge. Electronic version is available in the Linnaeus university Library

Articles

Ashurst, Colin, et al. (2012). "Exploring IT-enabled innovation: A new paradigm?." International Journal of Information Management, 32.4: 326-336.

El Sawy, Omar A., et al. (2016). "How LEGO Built the Foundations and Enterprise Capabilities for Digital Leadership." MIS Quarterly Executive, 15.2.

Checkland, P. and Poulter, J. (2010). Soft Systems Methodology. In Reynolds, M. and Holwell, S. (eds). Systems Approaches to Managing Change: A Practical Guide. London: Springer, pp. 191–241.
https://devpolicy.crawford.anu.edu.au/public_policy_community/content/doc/2010_Checkland_Sof

Galliers, R.D., Newell, S., Shanks, G.G., & Topi, H. (2017). Datification and its human, organizational and societal effects: The strategic opportunities and challenges of algorithmic decision-making. J. Strategic Inf. Sys., 26, 185-190.

Günther, Wendy Arianne, et al. (2017). "Debating big data: A literature review on realizing value from big data." The Journal of Strategic Information Systems

Henfridsson, Ola, et al. (2018). "Recombination in the open-ended value landscape of digital innovation." Information and Organization, 28.2: 89-100.

Im, Ghiyoung, and Arun Rai. (2013). "IT-enabled coordination for ambidextrous interorganizational relationships." Information Systems Research, 25.1: 72-92.

Peppard, J. (2016). Rethinking the concept of the IS organization. Information Systems Journal. APA

Peppard, J. and Ward, J. (2004). Beyond strategic information systems: towards an IS capability. Journal of Strategic Information Systems, 13 (2): 167-194.

Reynolds, Martin and Holwell, Sue (2010). Introducing Systems Approaches. In Reynolds, M. and Holwell, S. (eds). Systems Approaches to Managing Change: A Practical Guide. London: Springer, pp. 1–23.
http://oro.open.ac.uk/21298/1/systems-approaches_ch1.pdf
See also, on the difference between hard and soft systems thinking:
https://www.youtube.com/watch?v=TWctDGpefOM

Venkatraman, N., et al. (2014). "Theorizing digital business innovation: platforms and capabilities in ecosystems.
available at https://papers.ssrn.com/sol3/papers.cfm?abstract_id=2510111

Yeow, Adrian, Christina Soh, and Rina Hansen. (2017). "Aligning with new digital strategy: A dynamic capabilities approach." The Journal of Strategic Information Systems.

Additional papers related to the lectures will be added.