



## Course syllabus

Faculty of Technology  
Department of Informatics

4IK524 Vetenskapsmetod och teori, 7,5 högskolepoäng  
Information Systems Methodology, 7.5 credits

**Main field of study**  
Information Systems

**Subject Group**  
Informatics/Computer and Systems Sciences

**Level of classification**  
Second Level

**Progression**  
A1N

**Date of Ratification**  
Approved by Faculty of Technology 2014-10-03  
The course syllabus is valid from autumn semester 2015

**Prerequisites**  
75 credits in informatics or computer science, whereof 7.5 credits at G2F-level or equivalent.

### Objectives

The course aims at giving the student basic knowledge on theory of knowledge and methodology in the field of Information Systems.

Upon completion of the course, the student should be able to:

- thoroughly explain the meaning of fundamental scientific concepts
- effectively search for information and literature
- identify and describe scientific problems
- assess the choice of alternative research approaches
- thoroughly describe and explain advantages and disadvantages of different scientific methods for gathering quantitative and qualitative data
- apply fundamental scientific methods to quantitative and qualitative data analysis
- understand and assess scientific papers

### Content

The course comprises:

- scientific literature retrieval
- writing and structuring scientific papers according to the requirements of international scientific publishing
- epistemological and methodological approaches in the field of Information Systems

- seminars in the field of Information Systems
- presentation of a scientific issues in a relevant area

## Type of Instruction

Lectures 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).

Written and/or oral examinations and/or mandatory work. The types of assessment used in the course will be decided on at the beginning of the course.

## Course Evaluation

A course evaluation will be carried out at the end of the course in accordance with the guidelines of the University. The result of the course evaluation will be filed at the department.

## Credit Overlap

4IK024 Information Systems Methodology, 7.5 credits

## 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

### Required reading

Myers, M.D. & Avison, D., *Qualitative Research in Information Systems*, Sage Publications Ltd., 1st Ed., 2002. 312 (312) pages.

Cresswell, J.W, *Research Design Qualitative, Quantitative, and Mixed Methods-Approaches*, Thousands Oaks, CA:Sage Publications, 3rd Ed., 2009. 260(260) pages.

MSI, *Distributed material*. 100 pages.