



## COURSE SYLLABUS

# Information Logistics, 9 credits

### *Informationslogistik, 9 högskolepoäng*

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Course Code:	TILS24	Education Cycle:	Second-cycle level
Confirmed by:	Dean Feb 27, 2014	Disciplinary domain:	Technology (95%) and social sciences (5%)
Valid From:	Aug 1, 2014	Subject group:	DT1
Version:	1	Specialised in:	A1F
Reg number:	JTH 2014/624-122	Main field of study:	Informatics

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### Intended Learning Outcomes (ILO)

On completion of the course, the student should

#### *Knowledge and understanding*

- display knowledge of the main tasks of information logistics and its applications
- display knowledge of information demand and have knowledge of different approaches for information demand modeling
- be familiar with ontology-based solutions for information logistics

#### *Skills and abilities*

- demonstrate skills of information modeling and semantic matching
- demonstrate ability to implement an ontology-based solution for information logistics, manage group work and take into account sustainability aspects
- demonstrate ability to review scientific literature and write a scientific report, and manage group work

#### *Judgement and approach*

- demonstrate ability to handle new methods and applications in the field of information logistics and take into account sustainability aspects
- demonstrate understanding of research principles

### Contents

Today's information flow is more a flooding than a purpose-oriented supply. The research field information logistics investigates concepts and technologies for demand-oriented information supply, i.e. providing not just any information but only the "right" information "just-in-time" for a user's demand. The course examines advanced approaches in this field.

The course includes relevant topics from information logistics, like

- information demand modeling
- information supply
- information retrieval and modeling
- advanced ontology engineering

- ontology matching
- ontology-based solutions for information logistics

### Type of instruction

Lectures, lab work, seminars, assignment and project

The teaching is conducted in English.

### Prerequisites

Passed courses 180 credits in first cycle, at least 90 credits within the major subject Computer Engineering or Electrical Engineering (with relevant courses in Computer Engineering), and 21 credits Mathematics. In addition, completed courses Industrial Product Realization, Process - Methods - Leadership, 9 credits, Knowledge Modelling and Knowledge Management, 6 credits, Information retrieval, 9 credits and English Language requirements corresponding to English A in the Swedish upper secondary school (or the equivalent).

### Examination and grades

The course is graded 5,4,3 or Fail.

Registration of examination:

Name of the Test	Value	Grading
Examination <sup>1</sup>	3 credits	5/4/3/U
Laboratory work and Assignments	6 credits	U/G

<sup>1</sup> Determines the final grade of the course, which is issued only when all course units have been passed.

### Course literature

#### Literature

The literature is preliminary until one month before the course starts.

A collection of publicly available scientific articles.