



FACULTY BOARD OF HUMANITIES

Master in Language Technology (One year or Two years), 60 - 120 credits

Språkteknologi, masterprogram, 60 - 120 högskolepoäng

Programme code: H2MLT

Second cycle / Avancerad nivå

1. Confirmation

This programme syllabus was confirmed by the Faculty Board of Humanities on 13-06-2017 (G 2017/293) to be valid from 28-08-2017, Autumn semester 2017.

Responsible Department/equivalent: Department of Philosophy, Linguistics and Theory of Science

2. Purpose

The aim is to provide students with an appropriate background with advanced knowledge in natural language technology enabling them to pursue a specialist career in industry or academic research.

3. Entry requirements

Students with an undergraduate degree (at least three years full-time study) in

- language technology,
- computational linguistics,
- computer science, or
- linguistics (with a background in formal linguistics or programming corresponding to 30 hecr, half a year full-time study)

are eligible to apply for this programme.

Students with an undergraduate degree in cognitive science, languages, philosophy, software engineering, information technology or mathematics can also be considered, provided they can show a background in formal linguistics or programming corresponding to 30 hecr, half a year full-time study.

4. Higher education qualification and main field of study

This programme leads to a Degree of Master of Arts (120 credits) with a major in Language Technology (Filosofie masterexamen med huvudområdet Språkteknologi).

This programme leads to a Degree of Master of Arts (60 credits) with a major in Language Technology (Filosofie magisterexamen med huvudområdet Språkteknologi).

5. Outcomes

Second-cycle study programmes shall involve the acquisition of specialist knowledge, competence and skills in relation to first-cycle courses and study programmes, and in addition to the requirements for first-cycle courses and study programmes shall:

- further develop the ability of students to integrate and make autonomous use of their knowledge,
- develop the students' ability to deal with complex phenomena, issues and situations, and
- develop the students' potential for professional activities that demand considerable autonomy, or for research and development work.

General outcomes for Degree of Master (60 higher education credits)

Knowledge and understanding

For a Degree of Master (60 hec) the student shall

- demonstrate knowledge and understanding in the main field of study, including both an overview of the field and specialised knowledge in certain areas of the field as well as insight into current research and development work, and
- demonstrate specialised methodological knowledge in the main field of study.

Competence and skills

For a Degree of Master (60 hec) the student shall

- demonstrate the ability to integrate knowledge and analyse, assess and deal with complex phenomena, issues and situations even with limited information
- demonstrate the ability to identify and formulate issues autonomously as well as to plan and, using appropriate methods, undertake advanced tasks within predetermined time frames
- demonstrate the ability in speech and writing to report clearly and discuss his or her conclusions and the knowledge and arguments on which they are based in dialogue with different audiences, and
- demonstrate the skills required for participation in research and development work or employment in some other qualified capacity.

Judgement and approach

For a Degree of Master (60 hec) the student shall

- demonstrate the ability to make assessments in the main field of study informed by relevant disciplinary, social and ethical issues and also to demonstrate awareness of ethical aspects

of research and development work

- demonstrate insight into the possibilities and limitations of research, its role in society and the responsibility of the individual for how it is used, and
- demonstrate the ability to identify the personal need for further knowledge and take responsibility for his or her ongoing learning.

General outcomes for Degree of Master (120 higher education credits)

Knowledge and understanding

For a Degree of Master (120 hec) the student shall

- demonstrate knowledge and understanding in the main field of study, including both broad knowledge of the field and a considerable degree of specialised knowledge in certain areas of the field as well as insight into current research and development work, and
- demonstrate specialised methodological knowledge in the main field of study.

Skills and abilities

For a Degree of Master (120 hec) the student shall

- demonstrate the ability to critically and systematically integrate knowledge and analyse, assess and deal with complex phenomena, issues and situations even with limited information
- demonstrate the ability to identify and formulate issues critically, autonomously and creatively as well as to plan and, using appropriate methods, undertake advanced tasks within predetermined time frames and so contribute to the formation of knowledge as well as the ability to evaluate this work
- demonstrate the ability in speech and writing both nationally and internationally to clearly report and discuss his or her conclusions and the knowledge and arguments on which they are based in dialogue with different audiences, and
- demonstrate the skills required for participation in research and development work or autonomous employment in some other qualified capacity.

Judgement and approach

For a Degree of Master (120 hec) the student shall

- demonstrate the ability to make assessments in the main field of study informed by relevant disciplinary, social and ethical issues and also to demonstrate awareness of ethical aspects of research and development work
- demonstrate insight into the possibilities and limitations of research, its role in society and the responsibility of the individual for how it is used, and
- demonstrate the ability to identify the personal need for further knowledge and take responsibility for his or her ongoing learning.

Local outcomes

After completing the programme students will:

Knowledge and understanding

- have advanced knowledge of current technologies used in natural language processing and speech technology
- have advanced knowledge of theories and methods which are applied in current natural language technologies

Competence and skills

- have sufficient programming skills in order to develop language technology system components
- have experience of project work as part of a research and/or development team either through an industrial placement or through placement in one of the laboratories conducting language technology research at the University of Gothenburg

Judgement and approach

- have an appreciation of the human factor and social issues relating to the development and deployment of language technology
- have an appreciation of the relationship between language technology and other key technologies such as world wide web and mobile systems technologies.

6. Other information

The study programme will be followed up and evaluated in accordance with the applicable *Policy för kvalitetsssäkring och kvalitetsutveckling av utbildning vid Göteborgs universitet* (Policy for the Quality assurance and Quality Development of Education at the University of Gothenburg).