

**SYLLABUS**

# **Intelligent Technology - Scientific Work 30 credits P7023A**

**Framtidens intelligenta teknik - Vetenskapligt arbete**

**Course syllabus admitted: Autumn 2015 Sp 1 - Spring 2017 Sp 4**

**DECISION DATE  
2014-10-21**

# Intelligent Technology - Scientific Work 30 credits P7023A

## Framtidens intelligenta teknik - Vetenskapligt arbete

### Second cycle, P7023A

Education level	Grade scale	Subject	Subject group (SCB)
Second cycle	G U 3 4 5	Teoretisk neurovetenskap	Other Subjects within Technology

## Entry requirements

Minimum 90 ECTS first cycle and minimum 30 ECTS second cycle studies including P7034A Intelligent Technology - Computational Neuroscience.

## Selection

The selection is based on 30-285 credits

## Examiner

Peter Bengtsson

## Course Aim

Upon finalizing the course the student shall have advanced know how about simulation of psychological and cognitive functions by means of a computer or a humanoid robot. The student shall also practice on carrying out and reporting a scientific work. The course is for engineers, behavioural scientists, natural scientists and others who want to learn about a highly topical and exciting field of research, applying to advanced intelligent machines.

## Contents

The student shall simulate a cognitive function by means of a computer and write a paper about that. The work shall be based on up to date reasearch in the field of Computational cognitive neuroscience.

## Realization

Each course occasion's language and form is stated and appear on the course page on Luleå University of Technology's website.

Internet course, individual studies and guidance from lecturer.

## Examination

If there is a decision on special educational support, in accordance with the Guideline Student's rights and obligations at Luleå University of Technology, an adapted or alternative form of examination can be provided. Written scientific report.

## Remarks

Students must register for the courses themselves, or contact ETKS educational administration [eduetks@ltu.se](mailto:eduetks@ltu.se), not later than five days after the quarter commences. Failure to do so can result in the place being lost. This rule also applies to students with a guaranteed place.

Taught in Swedish and English.

Associated courses in the series Intelligent Technology are:  
P0008A Intelligent Technology of the future – Cognitive Science;  
P0012A Intelligent Technology – Computation & the Brain;  
P0065A Intelligent Technology – Computational Neuroscience I;  
P7045A Intelligent Technology – Neuroscience & Mathematics;  
P7010A Intelligent Technology – Cyborgs & Humanoid Robots;  
P0034A Intelligent Technology – Computational Neuroscience;  
P7023A Intelligent Technology – Scientific Work.

## Literature. Valid from Autumn 2009 Sp 1

Relevant reference literature for the project

## Course offered by

Department of Business Administration, Technology and Social Sciences

## Items/credits

Number	Type	Credits	Grade
0004	Written presentation of scientific report	30	G U 3 4 5

## Study guidance

Study guidance for the course is to be found in our learning platform Canvas before the course starts. Students applying for single subject courses get more information in the Welcome letter. You will find the learning platform via My LTU.

## Last revised

by Director of Undergraduate Studies Bo Jonsson, Department of Business Administration, Technology and Social Sciences 2014-10-21

## Syllabus established

by Kursplanen har fastställts av Institutionen för arbetsvetenskap 2008-11-18 2008-12-18