Linnæus University

Course syllabus

Faculty Board of Science and Engineering
School of Computer Science, Physics and Mathematics

1ME108 Datorstött lärande, 7,5 högskolepoäng
Technology Enhanced Learning, 7.5 credits

Main field of study
Media Technology

Subject Group
Media Production

Level of classification
First Level

Progression
G1N

Date of Ratification
Approved by Organisational Committee 2009-09-08

The course syllabus is valid from spring semester 2010

Prerequisites
General entry requirements.

Expected learning outcomes
Upon completion of the course, students should:

- understand the enabling possibilities of modern technology in learner centered settings as regards both software and hardware, even mobile technology.
- know and use precise terminology for the defined concepts of the field of TEL.
- be acquainted with the relevant concepts of Computer Science (protocols, hardware specifications) and those of applied Media Technology (visualisation, chat, wikis for inclusion).
- be acquainted with the efficient use of a computer and its software for a more efficient administrative work in the classroom.
- have knowledge about the field where technology and pedagogics co-operate to reinforce learning.

Content
The course addresses:

- the computer as a communication amplifier (e-mail, chat, virtual communities, and other channels)
- the computer as a cognitive amplifier (Mindmapping, visualisation, learning communities)

- the so called Web 2.0 (sharing knowledge in blogs, wikis, podcasts)
- software that facilitates efficiency as well as pleasure in learning.

Type of Instruction

Distance course through an Learning Management Environment with some compulsory meetings at the university. The course relies heavily on student work with many practical assignments to be solved by a due deadline – an example in itself of learning by doing.

Spontaneous chatting with the instructor(s) or among students is highly encouraged as this represents a form of collaboration and
group learning. Some assignments rely on specific software and these are dealt
with when the compulsory course meetings take place. The student is required to download some (demo) software to
his own computer to solve some assignments. It is encouraged that this be done at the local school in order to involve the pupils
(if the students are in-service school l teachers).

Examination

The course is assessed with the grades Fail (U), Pass (G) or Pass with Distinction (VG).

Continuous examination. All the assignments are to be sent in by a due deadline.

Upon request, students may have their credits translated to ECTS-marks. Such a request must be sent to the examiner before the grading process starts.

Course Evaluation

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

Required Reading and Additional Study Material

Required reading

Sousa Pires, J *Glädjen att veta hur det faktiskt hänger ihop,* Studentlitteratur, 1998. Pages 260.

KK-stiftelsen, rapport *18 Läroverktyg. Om erfarenheter och forskning kring digitala läromedel och datorstött lärande.*
Pages 150.

Distributed material (articles, Mind maps). Pages 100.

Web based material (articles). Pages 50.

Recommended supplementary reading

Jonassen, D. H., Peck, K. L.& Wilson,
Learning with Technology: a constructivist approach, Upper Saddle River, NJ, Prentice Hall, Inc. 1999.

Jonassen, D. H. *Modeling with technology : mindtools for conceptual change*, Upper Saddle River, N.J., Pearson Merrill
Prentice Hall, 2006.