Linnæus University

Course syllabus

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

1ME08U 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 the Board of the School of Computer Science, Physics and Mathematics
2012-12-13

The course syllabus is valid from autumn semester 2012

Prerequisites
NO VALUE DEFINED

Objectives
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 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

Gärdenfors, P (2010) Lusten att förstå : om lärande på människans villkor, Natur & kultur. 284 p. ISBN:9789127121652

McLeod S. & Lehmann C (2011) What School Leaders Need to Know About Digital Technologies and Social Media, John Wiley & Sons. 224 p. ISBN: 9781118022245

Heath, C. På tal om http://patalom.se/ [2011-11-22]

Stanelius M. (publisher), (2012) Hur funkar det? En guide till vardagstekniken, Kjell & Company, 800 p. (selected parts), ISBN: 9789197908115

Web based material (articles). Pages 50.

Recommended supplementary reading

Johnson, L., Smith, R., Willis, H., Levine, A., and Haywood, K., (2011) The 2011 Horizon Report. Austin, Texas: The New Media Consortium, 40 p. ISBN 978-0-9828290-5-9

Winter, S & Johansson, P (2009) Digitalis filosofi [Elektroniskt] Stockholm, .SE. Tillgänglig: https://www.iis.se/docs/digitalis_filosofi_web.pdf [2011-11-22]. 70 p. ISBN: 978-91-977908-8-8

Skolsnack-GarageTV (2011-...). www.youtube.com/watch?v=we22AqJucBU [2011-11-22], www.facebook.com/Skolsnack [2011-11-22]

Recommended reference Literature

Findahl, O. (2011) Svenskarna och internet [Elektronisk] Rapport. Stockholm, .SE. Tillgänglig: https://www.iis.se/docs/SOI2011.pdf [2011-11-22]. 72 p. ISBN: 978-91-