Linnæus University

Course syllabus

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

1ME104 Webbdesign II, 7,5 högskolepoäng
Web design II, 7.5 credits

Main field of study
Media Technology

Subject Group
Media Production

Level of classification
First Level

Progression
G1F

Date of Ratification
Approved by the Board of the School of Computer Science, Physics and Mathematics 2009-09-08

Revised 2010-08-05. Revision of prerequisites and course evaluation.

The course syllabus is valid from spring semester 2011

Prerequisites
1ME103 Web Design I 7.5 credits.

Expected learning outcomes
Upon completion of the course the student should:

- know how to create dynamic web pages with client-based languages
- know how to write scripts that dynamically change the content and the style of web pages
- know how to design usable, interactive web pages
- master methods for the design of object-based, event driven programs in client-based languages.

Content
The course consists of:

Design of web sites

- information architecture for web sites (field analysis and design methods, navigation)
- languages such as HTML/XHTML, CSS, XML and XSL
- tools for web design.

Programming

- definition of script languages, especially JavaScript
- survey of data types, variables, program statements, sequence, selection, iteration, functions, objects, and events
- object-based and event-driven programming
- fundamental programming of interactivity and dynamic effects on web pages
- principles of interactivity and the concept usability.

Type of Instruction

Campus course are based manley on lectures, seminars, tutorials and practicals.
For distance course, the communication is conducted through a learning management system over the Internet. Practical work is conducted individually or in groups.
Attendance is mandatory for some sessions.

Examination

The course is assessed with the grades Fail (U), Pass (G) or Pass with Distinction (VG).
The examination consists of submission on written hand-in assignments. These must be submitted by the due date.

On 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 result of the course evaluation will be filed at the department.

Required Reading and Additional Study Material

Required Reading

DFM (present year) *Web-based material*, Linnaeus University. appr. 300 p.

Garrett, J. J. (2003) *The Elements of User Experience*, New Riders. 189 p. ISBN: 0-7357-1202-6

Lynch, P. & Horton, S. (2009) *Web Style Guide*, 3rd ed., Yale University Press, Available at www.webstyleguide.com [2009-06-01]. 320 p. ISBN: 0-300-13737-0

Ray, E.T. (2003) *Learning XML*, 2nd ed., O'Reilly, ISBN 0-596-00420-6

Thau, D. (2006) *The Book of Javascript: A Practical Guide to Interactive*v, Web Pages, No Starch Press. 400 p. ISBN: 1-59327-106-9

Wyke-Smith, C. (2006) *Stila med CSS*, Pagina (Swedish version). 268 p. ISBN: 91-636-0910-X
or
Wyke-Smith, C. (2007) *Stylin' with CSS: A Designer's Guide*, 2nd ed., New Riders (English version). 312 p. ISBN: 0-321-52556-6

Recommended Reference Literature

Flannagan, D. (latest edition) *JavaScript - The Definitive Guide*, O'Reilly

Meyer, E. A. (latest edition) *Cascading Style Sheets - The Definitive Guide*, O'Reilly

Recommended Supplementary Reading

Darlington, K. (2005) *Effective Website Development - Tools and Techniques*, Pearson Education

Jenkins, S. (2007) *Web Design: The L Line, the Express Line to Learning*, Hungry Minds Inc.

Morville, P. & Rosenfeld, L. (latest edition) *Information Architecture for the World Wide Web*, O'Reilly

Norman, D. A. (1998) *Design Of Everyday Things*, Mit Press Ltd

Wodtke, C. (2003) *Information Architecture: Blueprints for the Web*, New Riders Publishing