

Study Board of Communication and Digital Media Fall 2017

Semester description 7th semester Information Architecture, Aalborg

Semester details

School: School of Music, Music Therapy, Psychology, Art, Communication and Technology

(MPACT)

Study Board: Storyboard for Communication and Digital Media

Study Regulation: Regulations and curriculum for the master's programme in information architecture,

september 2017:

http://www.fak.hum.aau.dk/digitalAssets/287/287893 ma informationsarchitecture 2017

hum_aau.dk.pdf

Semester framework theme

This project module focuses on design of information architecture (IA) for communication and human-computer interaction at web sites, social network, portals, online communities, intranets, e-learning systems. User-centred design that takes into account the users as well as technology.

The students will build on communication theory from the bachelor education regarding genres, metaphors and patterns, and will learn to observe, analyse and interpret Information Architecture across media and organizational boundaries, and to understand why and how categorizing and knowledge organization has formatting impact on information handling and knowledge sharing.

Semester organisation and time schedule

This semester consists of two overall courses; Information Architecture, Rhetoric and Persuasive Design (15 ECTS), and Web Technology and Databases (10 ECTS). IA rhetoric presents core elements in the design of information architecture. Web Technology and Databases represents the technological angle on IA. The remainder 5 ECTS are allocated for elective courses.

Semester coordinator and secretariat assistance

Semester coordinator: Tanja Svarre.

Course coordinator: Tanja Svarre (Information architecture, rhetorics and persuasive design), Pär-Ola

Zander (Web technology and databases).

Secretariat assistance provider: Pia Knudsen piak@hum.aau.dk

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WEB TECHNOLOGY AND DATABASES (KDM_KA_INFORMATIONSARKITEKTUR_AAL)

Administration Course administration Turn editing on Edit settings Users Unenrol me from Web technology and databases (KDM_KA_Informationsarkitektur_AAL) [E17-22345] Filters Reports Grades Gradebook setup A Backup Restore Import Reset Question bank Repositories Competencies

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(No news has been posted yet) Upcoming events There are no upcoming events Go to calendar...

Recent activity Activity since Thursday, 17 August 2017, 7:47 Full report of recent activity... No recent activity

Dashboard ► School of Music, Music Theraphy, Psychology, Art, Communication & Technology (MPACT) ► Autumn 2017 ► Study Board of Communication and Digital Media - Aalborg ▶ 7th semester ▶ Information Architecture ▶ Web technology and databases (KDM_KA_Informationsarkitektur_AAL) [E17-22345] Turn editing on

Announcements

Topic 1

This is the course page of Web Technology and Databases. Welcome! The course is comprised by a set of lectures followed by work of evaluating a number of technologies. The exam wraps up the results of the technologies in individualized exams.

Teachers:

Pär-Ola Zander (module coordinator)

Tanja Svarre Jonassen

Literature: Connolly, R., & Hoar, R. (2017). Fundamentals of web development (2 [edition]). Boston: Pearson. (older editions are acceptable) Messier, R. (2014). Collaboration with cloud computing: security, social media, and unified communications. Amsterdam; Boston: Syngress. (Chapter 2) (will be provided later)

In addition, we expect that you spend up to 150DKK in service fees, since you during the course will experiment with various web services.

Technologies to evaluate

Lecture 1: Kick-off for the course

Preparation: Watch Web Technology Fundamentals at Lynda.com

Study guide for the file: There is a quiz in the end - take that first if you think it may be too easy for you. Ignore the "dealing with data" and "Using SQL..." - they will be covered next lecture.

Describe main course objectives. Explain the main learning approach. Explain the first-order skills that you will develop as students. Explain the second-order capabilities that you will develop.

Literature: Connolly & Hoar (2015). Fundamentals of Web Development (global edition). Harlow: Pearson.

Examples: HTML, clients, web servers. Internet-based APIs for accessing data. Various classes of high-layer technologies (e.g. CMSs).

Literature: Connolly & Hoar (2015). Fundamentals of Web Development (global edition). Harlow: Pearson.

Johnson, S. B. (2003). Systems integration and the social solution of technical problems in complex systems. The Business of Systems Integration, 35-56.

Lemay, L., Kyrnin, J., & Colburn, R. (2011). Sams Teach Yourself HTML, CSS & JavaScript Web Publishing in One Hour a Day.

http://www.w3schools.com/

Lecture 3: Databases, practicals, and kntroductions to the technology of search engines.

Part 1: Introduction to Databases.

- Introduction to databases
- Introduction to structured data and SQL. Literature: Connolly & Hoar, ch 11

Part 2: Practical examples. Example of editing a script. Example of putting up a file on the web ("low-level"). Example of accessing an API. Literature:

Janssens, J. (2014). Data science at the command line. O'Reilly, Sebastopol, CA. (and what technical reference literature you may find)

Part 3 - search engines

- · Introduction to search engines and information retrieval
- Introduction to searching unstructured text Literature: Connolly & Hoar, ch 20

Supplementary literature: Croft, Metzler & Strohman, ch 2, 6, 7.

Technology review process kick-off

Technology review process kick-off (starting Mon 9 October, ending 19 October) Our work process will be described here in detail later in the course. Be prepared that your weeks will be pretty filled up in these periods during

daytime, as can be seen in the schedule. In short, we will try out different web and database technologies in small groups, and report the difficulties to class. Different groups will work with different technologies. You will be supervised in the process - not necessarily shown the correct solution, but how to systematically address

process will ensure that both categories have a stimulating and challenging learning experiences. Apart from the general literature in the outset of the course, there is no set curriculum for these activities, although you will have to consult manuals in order to evaluate the technologies.

the challenge, We assume that some students have very little experience with such technologies, and that others are more experienced. The

Exam The course is graded by a 3-day home exam. The exam will be largely based on what you have done throughout the course.

Topic 7

Topic 6

Topic 8

Topic 9

Topic 10