zh aw School of Engineering

t.WBE - Web-Entwicklung

Person responsible for the course:	Gerrit Burkert, bkrt
Credits:	4
Valid for:	2011/2012
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Learning objectives:

The students will learn client- and server-side programming for the development of web applications, with an emphasis on the client-side. They will have profound knowledge about the programming language JavaScript and the usage of this language for client-side web programming, both for desktop and mobile clients. With the help of JavaScript libraries, the students will be able to build web pages with asynchroneous client-server communication (Ajax). Furthermore, the students will learn doing server side web development, including the usage of web frameworks. Another goal is to give an overview of the state and current trends in the area of web development.

Course content:

Current topics in web development (4 lessons)
Progress in web development in the two years since WBD, recap of markup and style sheets

Client-side web development (10 lessons):
JavaScript, Document Object Model (DOM), JavaScript libraries, asynchroneous client-server communication (Ajax, JSON), Rich Internet Applications (RIA)

Server-side web development (8 lessons):
Overview, platform and programming language for server-side web development, types of web frameworks, introduction to a lightweight MVC framework

Mobile web (6 lessons):
Mobile web clients: Features od mobile web browsers, mobile web frameworks

Previous knowledge:

Course WBD

Teaching method:

Type of lesson:	Number of lessons per week:
Lecture	14*2
Tutorial/Practicum	14*2
Group teaching	
Block instruction	
Seminar	

Assessment:

According to the table or as specified in writing by the lecture at the beginning of the semester!

Number	Type	Weighting
1	End of term exam	2/3
1	Exam during the semester	1/6
1	Further assessments	1/6

Language of instruction:

German

Instruction material:

The slides used in the lectures will be available as PDF documents.

Comments:

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