

## t.WBE - Web-Entwicklung

**Person responsible for the course:** Gerrit Burkert, bkrt

**Credits:** 4

**Valid for:** 2010/2011

**Last saved:** 31.08.2010 11:59

### 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. With the help of JavaScript libraries, the students will be able to build web pages with asynchronous 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:

Client-side web development (12 lessons):

JavaScript, Document Object Model (DOM), JavaScript libraries, asynchronous client-server communication (Ajax, JSON), Rich Internet Applications (RIA)

Server-side web development (8 lessons):

Overview, platform and programming language for lightweight server-side web development, web frameworks (scripting language), content management

Current topics (4-6 lessons):

State and current trends in the area of web development

### 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:**

-