

Adv. Web Technologies

0) Presentation

Emmanuel Benoist
Fall Term 2016-17

▶ Computer Science Division

Course : Advanced Web Technologies

- ▶ **Goals of the course**
 - ▶ The students can create, manage and modify a web site written in Java and using JSF (Java Server Faces).
 - ▶ They are concerned by web security and know some of the most common vulnerabilities.
 - ▶ They know the frameworks for client side programming : Angular JS and ECMAScript
- ▶ **Module 7408**
 - ▶ 4 ECTS
 - ▶ Optional Course
 - ▶ In the Qualification Group D1
 - ▶ Prerequisite: Module "Web Programming" (7054)

Presentation

- ▶ **Emmanuel Benoist**
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 - ▶ "Kürtzel": BIE1
 - ▶ Homepage: <https://prof.ti.bfh.ch/bie1/>
- ▶ PhD at the University of Caen (France)
- ▶ Professor at the Berner Fachhochschule
 - ▶ teaches Computer Science in Biel since 1999
 - ▶ Specialties: Algorithmic, Web Programming and Web Security
- ▶ Web Security and Privacy protection on the Web
 - ▶ Member of the Research Institute on Security in the Information Society (RISIS) of the BFH-TI
 - ▶ Web-security, privacy protection.
- ▶ Member of the board of the Certified Secure Web - CSW GmbH

Control of Knowledge

- ▶ **Module 7408 is a E Module**
- ▶ **JSF-Project**
 - ▶ 50% of the final note
 - ▶ in the middle of the semester (around nov.)
- ▶ **Exam on Web Security**
 - ▶ 15% of the note
 - ▶ Takes place during the 10th week of courses
 - ▶ 30 minutes
- ▶ **Client side programming**
 - ▶ 35% of the final mark
 - ▶ Details to be discussed with S. Fischli and Ph. Locher

Schedule of the course

- ▶ **Java Server Faces**
 - ▶ Java Servlet and Java development environment
 - ▶ Model View Controller
 - ▶ Life Cycle, navigation, event handling,
 - ▶ Create your own components
 - ▶ Facelets
- ▶ **JSF-Project**
- ▶ **Web Security**
 - ▶ Short Presentation of major security dangers
- ▶ **Client Side Programming**
 - ▶ Angular JS
 - ▶ ECMAScript 5 and ECMAScript 6

Information about the course

- ▶ **Web site of the course:**
<http://www.benoist.ch/coursAWT/>
 - ▶ Slides
 - ▶ Examples
 - ▶ Exercises
 - ▶ Resources (bibliography and Internet)