



Berner Fachhochschule  
Haute école spécialisée bernoise  
Bern University of Applied Sciences

# Adv. Web Technologies

## 0) Presentation

*Emmanuel Benoist*  
Fall Term 2016-17

# Presentation

- ▶ Emmanuel Benoist
  - ▶ email: [emmanuel.benoist\(at\)bfh.ch](mailto:emmanuel.benoist@bfh.ch)
  - ▶ Office: N671 (Villa Security, vis à vis Rolex building)
  - ▶ “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

# 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)

# 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)