Hochschule Offenburg
offenburg.university

Course: Security of Web-Applications

Faculty: Media and Information

Course ID: UNITS-64

Lecturer: Prof. Dr. Dirk Westhoff

Teaching Format: lecture, lab work

Language: English teaching, English textbooks, German slides

Teaching Semester: summer

Number of Semesters: 1

Assessment: written exam

ECTS Credits: 5

Prerequisites

- familiarity with a procedural programming language and to understand Internet and World Wide Web technologies

Learning Outcomes

- to understand fundamental web-application attacks and to apply recommended countermeasures against such web-application attacks.
- to be familiar with generic configuration means to harden a Web-Server

Contents

- Client-Server architectures e.g. three tier architecture
- Fundamental attacks on Web-applications and Defacements
- Mobile code and security concepts of ActiveX, Java and PHP
- DoS resp. DDoS-attacks, Websecurity-Scanner
- Countermeasures against Webapplication attacks
- Basic security requirements for cloud security