

Web Security Presentation

November 10, 2023

Emmanuel Benoist | BFH-TI

Course : Web Security

Goals of the course

- The students know the most important dangers for Internet Web sites and their users.
- The students have an overview of the measures to take for programming safe web sites.
- They can tell which are the basic-principles of Web security.
- They have applied these principles and can use them in real applications.

Part of the module BTI 4203

- IT-Security 2.1
- a.k.a. Web Security

Optional module for ESC students of Unil

- Hacking of Web Sites BTI 7267

Contact

- Emmanuel.Benoist (at) bfh.ch : Web Security

Presentation

Emmanuel Benoist

- email: emmanuel.benoist(at)bfh.ch

PhD at the University of Caen (France)

Professor at the Berner Fachhochschule

- Teach Computer Science in Biel since 1999
- Specialties: CS Basics, OS, Web Programming and Web Security

Web Security and Privacy protection on the Web

- Member of ICE (Institute for Cybersecurity and Engineering)
 - Web Security
 - Privacy Protection on the Web
 - e-Health

Schedule of the course

Web Security

- Injections
- XSS - Cross Site Scripting,
- Broken access control
- Broken authentication
- Sensitive data exposure
- Other Owasp Top 10 problems (self study)
- Audit methods and risk analysis

Examination

Pa module :

- No intermediary test;
- No mark for homework.

One written exam

- Two hours (120 mn) durring the exam weeks.
Half of the time for Web Security.

Bibliography

OWASP Top 10

http://www.owasp.org/index.php/Category:OWASP_Top_Ten_Project **OWASP**

Developers Guide

http://www.owasp.org/index.php/Category:OWASP_Guide_Project

Web Security Testing Cookbook *Paco Hope and Ben Walther*, O'Reilly

The Web Application Hacker's Handbook *Dafydd Stuttard and Marcus Pinto*, Wiley

How to Break Web Software *Mike Andrews and James A. Whittaker*, Addison Wesley

Information about the Web Security course

Moodle page for the course

<https://moodle.bfh.ch/>

Who are you?

Proficiency in Web Programming?

Proficiency in Security?

German speaking / French speaking ?

Type of study?

Questions?

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