

IT Security

Information & Network Security

by Bjoern Kimminich

Bjoern Kimminich

- [Nordakademie](#) Graduate (199a)
- IT Architect / AppSec Officer at [Kuehne + Nagel](#)
- Lecturer at [Nordakademie](#) since 2009
- Volunteer in the [Open Web Application Security Project](#)
- Board Member of the [German OWASP Chapter](#)
- Project Lead of the [OWASP Juice Shop](#)

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Miscellaneous

- <https://keybase.io/bkimminich>
- <https://twitter.com/bkimminich>

Course Material

<https://github.com/bkimminich/it-security-lecture>

Course Material

- All slides and references are in  language
- The lecture can be held in  or  language
- Latest course material is available only on GitHub
- Content exists as `Markdown` files for use with [Marp](#)
- Slides can be [downloaded as PDF](#) from GitHub
- All slides are published as [OER](#) under [CC BY-SA 4.0](#) license

You can help save a  by not  all slides for the entire course in advance as content might change during the course!

Rules

- Physical presence at lectures is mandatory and will be logged
- Exercises are mandatory (unless explicitly marked as *optional*)
- Active participation is encouraged. Otherwise at least be quiet
- If you are done with the last exercise of the day, you may leave

Curriculum 1st Semester

1. [Motivation](#)
2. Security Goals
3. Malware
4. Network Security
5. Encryption
6. Security Management & Organization
7. Threat Modelling
8. Risk Assessments
9. Penetration Tests & Security Automation


Curriculum 2nd Semester

1. [Open Web Application Security Project](#) (OWASP)
2. [XSS](#)
3. [Injection](#)
4. [Authentication Flaws](#)
5. [Authorization Flaws](#)
6. [Sensitive Data](#)
7. [Insecure Dependencies & Configuration](#)
8. [XXE & Deserialization](#)
9. [Secure Development Lifecycle](#)

Schedule

 **TODO**

Test Exam

- At the end of 2nd semester (90min)
-  Covers topics from both semesters

Recommended Resources

 **TODO**

Optional Literature Recommendations

 **TODO**