



Risikoanalyse bei elektromagnetischer Beeinflussung

Extent:

2V + 1Ü+1PR,
5 CP, benotet

Type of exam:

Homework paper +
oral exam

Type of lecture:

- set of lecture slides
- mp4-files
- online lecture
- exercises
- Q&A sessions
- Language: English
(on request German)

Time:

Freitags

V: 10:15 – 11:45 Uhr

Ü: 12:00 – 12:45 Uhr

Beginn:

16. October 2020

CONTENT OF THE LECTURE

- Fundamentals and methods of risk analysis
- Basic design and technology of IEMI sources (e.g., VIRCATOR, Magnetron, Klystron, ...)
- Modelling of IEMI threat scenarios
- EMI effects on electric systems
- Protective measure
- Discussion and assessment of the risk for critical infrastructures
- Case studies on a generic infrastructure

PREVIOUS KNOWLEDGE

- None.

A good understanding of physical-scientific relations is helpful.

