

Courses in English Course Description

Department	04 Electrical Engineering and Information Technology
Course title	Network Security
Hours per week (SWS)	4
Number of ECTS credits	5
Course objective	Get a thorough understanding of network security threats, impact and countermeasures.
Prerequisites	Understanding of computer networks and protocols (TCP, IP, IPv6).
Recommended reading	For prerequisites: Peterson, Davie: Computer Networks For the lecture: script available, web resources
Teaching methods	Lecture, lab/home work with presentations
Assessment methods	Written exam
Language of instruction	English
Name of lecturer	Prof. Dr. Manfred Paul
Email	manfred.paul@hm.edu
Link	http://www.ee.hm.edu/fk/prof/paul/index.html
Course content	The security landscape, security needs, introduction into cryptography, identification and authentication, key management and PKI, network reconnaissance, sniffing, exploiting networks, network defenses, mobile code, software vulnerability and reliability, security strategies
Remarks	