

Course Description – Summer 2022

Title	IT-Security (IT-Sec)
Faculty	Computer Science
Professor	Prof. Ralf Staudemeyer, PhD
ECTS	5
Level	Bachelor
Requirements	Computer Networks, Operating Systems
Add. Information	
Content	In this course students first learn how to determine the level of security of a computer system or service, specify vulnerabilities, and to estimate the potential damage resulting from a successful attack. Focus of this course is as well to deepen the understanding of cryptographic techniques to ensure integrity and confidentiality of information. Topics include various sub-components like cryptographic key management, authentication in distributed systems, privacy-enhancing technologies, and a selection of basic security protocols and standards.