

Course Description – Winter 2022/23

Title	IT-Security and Cryptography (ITSec)
Faculty	Computer Science
Professor	Prof. Ralf Staudemeyer, PhD
ECTS	5
Level	Master, Bachelor (with prerequisites)
Requirements	Basic knowledge in IT-Security and Cryptography
Add. Information	
Content	In this course students learn how to determine the level of security of a computer system or service and to estimate the potential damage resulting from a successful attack. Focus of this course is to deepen the understanding of cryptographic techniques to ensure integrity and confidentiality of information. Topics include various sub-components like cryptographic key management, biometrics, authentication in distributed systems, and basic security protocols and standards. Part of this course is a practical IoT project.