Course title	Information Technology
Course code	IMTBIT1
Module coordinator	Miriam Heinrich
Lecturer	Prof. Dr. I. Rogina
Level of course	Bachelor
Recommended prerequisites	Computer Science A and B
Type of course	Lecture
Weekly lecture hours (SWS)	2
ECTS credits	2.5
Workload	In total 60 h, 30h course attendance, 30 h self-study
Assessment (grading; pass/fail)	graded
Regular cycle	Each semester
Language of instruction	English
Contents:	Computer networks (types of computer networking, introduction to internet communication, types of communication protocols, OSI model (Open Systems Interconnection) Data protection and security (types of data worthy of protection, security options via defences against internet attacks, prevention of manipulation and wiretapping, cryptography) Mobile IT (problems and challenges of mobile communication and data processing, mobile communication protocols, mobile services)
Learning outcome (competencies):	After having successfully completed the course, the students should • understand the concept of information • understand and be able to judge different ways of coding information • understand the most important methods and protocols of technical communication • understand and be able to judge methods of organizing and comparing data on digital systems
Teaching methods	☒Lecture ☐Group work ☐Exercises ☐Simulation ☐Video feedback ☐Others:
Assessment methods	Written exam
Recommended reading	
Additional information	
Recognition of credits	