

Cryptography					
Course code CIF61031	student workload 90 hours	credits (according to ECTS) 4,5	semester Sem. 5 & 7	frequency each odd-semester	duration 16 meetings
1	Types of courses <i>compulsory</i>	contact hours 63 hours	independent study 27 hours	class size 40 students	
5	Prerequisites for participation Have completed Computational Mathematics Have completed Information Security				
2	Learning outcomes IF-ILO-3 Graduates are able to develop professional careers in the field of computer science based on quality aspects, data-based decision making, be responsible, and make continuous improvements. IF-ILO-7 Mastering the theoretical concept and principles of computer science, especially in the aspect of algorithms, programming, intelligent systems, information management, parallel and distributed computing, information security, human-computer interaction, software engineering, and fundamentals of computer systems and networks. IF-ILO-11 Graduates are able to plan, develop, manage, and analyze the computer network-based system and the services running on top of them by considering the network security aspects.				
3	Subject aims Students are able to understand the mathematical basis used in cryptography Students are able to understand the concept of cryptographic algorithms Students are able to apply the basic concepts of cryptography to software				
4	Teaching methods lectures, case study, class discussion, presentation				
6	Assessment methods assignment, mid-term examination, end-term examination, project evaluation, practical-skill assessment				
8	This module is used in the following degree programmes as well				
10	Responsibility for module				
11	Other information Handbook of Applied Cryptography (Discrete Mathematics and Its Applications) oleh Alfred J. Menezes, Paul C. van Oorschot), Scott A. Vanstone				

