



1.	Course title	Cryptography
2.	Course code	F18L3S122
3.	Semester	6
4.	Unit offering the course	Faculty of Computer Science and Engineering
5.	ECTS	6
6.	Goals of the study programme	
	A student will learn the basic cryptographic principles and techniques. Will learn about the basic cryptographic design of a primitive and practical used of the fundamental cryptographic algorithms.	
7.	Contents of the study programme	
	Cryptographic notation; Historical ciphers; Symmetric cryptography; Stream ciphers and random number generators; Block ciphers and block cipher modes of operation; DES and AES; Attack scenarios; Cryptography with public key; RSA and ElGamal algorithms; Digital signatures; Diffie and Hellman key exchange scheme; Hash functions; Cryptographic algorithms applicable in the field of information security.	