



1.	Course title	Biometric Systems
2.	Course code	БК-И-02
3.	Semester	9
4.	Unit offering the course	Faculty of Computer Science and Engineering
5.	ECTS	6
6.	Goals of the study programme	
	The aim of the course is to familiarize students with the basic principles used in biometric algorithms and systems. Upon completion of the course the candidates: will have profound knowledge of advanced technologies and methods used in biometric systems, they can choose an appropriate algorithm and system for a given application context, they will understand the complex relationships between biometric systems and the environmental conditions (light, variations in the position of the objects of interest, etc. .) will have an understanding of the principles of privacy and their influence on the design and configuration of the biometric systems.	
7.	Contents of the study programme	
	Introduction and basic concepts in biometric systems. History of biometric systems. Requirements and properties of biometric systems. Image processing and extraction of visual features. Algorithms for classification. Fingerprints recognition. Veins recognition. Face recognition. Recognition of 3D faces. Iris recognition. Multi-modal biometric systems. Evaluation schemes for biometric systems testing performance and security aspects. e-Passport. Data privacy in biometric systems.	