1.	**Course title**	Intelligent systems
2.	**Course code**	F18L3S107
3.	**Semester**	8
4.	**Unit offering the course**	Faculty of Computer Science and Engineering
5.	**ECTS**	6
6.	**Goals of the study programme**	
	The goal of the course is to complete the knowledge of students in the field of intelligent systems, starting from pre-processing data to validation of the built system. Students will be able to build an intelligent system from start to finish on real domain specific problems.	
7.	**Contents of the study programme**	
	Overview of domains using modern Intelligent Systems; Contemporary techniques for data preprocessing; Modern machine learning techniques for building models of IP; Evaluation of IP models; Discriminant versus generative IP building methods; Special theme for sound processing, Fast Fourier transform, time and spatial domain; Methods of machine learning for sound processing; Aspects of cognitive modeling - a person as an intelligent system, cognitive architectures; Processing a real problem - methods for the best choice of pre-processing techniques, model and evaluation of constructed IS; Processing a real problem - designing an IS for a selected domain and its evaluation;	