1.		**Course title**	Decision support systems
2.		**Course code**	СИ-И-11
3.		**Semester**	10
4.		**Unit offering the course**	Faculty of Computer Science and Engineering
5.		**ECTS**	6
6.		**Goals of the study programme**	
		To introduce the students to the modern concepts of decision analysis, methods, techniques and decision support systems. Upon completion the course the students are expected: to have deepened knowledge of the advanced techniques and methodologies of decision analysis; to be able to understand, analyse and model decision support systems on real world problems; to be able to realize and estimate the performance of a decision support system.	
7.		**Contents of the study programme**	
		Decision making and decision support. The process of decision making, decision components, taxonomy of decision making. The main concepts of decision analysis, artificial intelligence and predictive model construction and evaluation in a specific context. The advantages and disadvantages of using these methods in real-world systems and hands-on experience. Decision support, knowledge-based systems (qualitative and quantitative), learning systems (including logistic regression, classification trees, neural networks, rough sets), and techniques to evaluate the performance of such systems.	