



1.	Course title	Visualization
2.	Course code	F18L3W081
3.	Semester	5
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 concept of data visualization, selection of techniques and algorithms for visualization of different data sets, and their program implementation. Upon completion of the course is expected the student to demonstrate knowledge of the concept of data visualization, knowledge how to select and implement algorithms for visualizing different data types by programming or by using visualization tools.	
7.	Contents of the study programme	
	Introduction. Definitions and terminology. Data and representation of data. Visualization pipeline. Visualization of scalars. Mapping algorithms for scalar values. Isolines and isosurfaces. Visualization of volume data. Visualization of vectors. Icons for vector visualization. Visualization of streams and flows. Information visualization. Visualization of multidimensional data. Visualization of relations. Visualization animation. Interaction techniques in the process of visualization.	