

Level: bachelor				
Course title: Statistical processing of data in environmental analysis				
Status: elective				
ECTS: 5				
Requirements: none				
Learning objectives Introduction of students to statistical measures and distributions in order to identify changes in natural systems, and examination of environmental quality.				
Learning outcomes Obtain the necessary knowledge about the characteristics and statistical processing of data on environmental quality.				
Syllabus <i>Theoretical instruction</i> Getting to know the characteristics of the data on the quality of the environment: sources of variability of environmental data, independence of successive data values, uncertainty and errors in environmental data. The following topics are studied: statistical characterization of the data, and the normal Gaussian distribution, lognormal distribution, useful for the characterization of the distribution of environmental data; the identification of changes of systems and components outside of the control chart and using simple procedures, conduct simultaneous characterization and correlation basis-regression, testing the difference between the monitoring data. Using statistical data processes. <i>Practical instruction</i> Practical instruction follows the theoretical one.				
Weekly teaching load				Other:
Lectures: 2 (30)	Exercises: AV 2 (30)	Other forms of teaching:	Student research:	