1.		**Course title**	Data Analysis Using Statistical Packages
2.		**Course code**	СНП-3-1
3.		**Semester**	9
4.		**Unit offering the course**	Faculty of Computer Science and Engineering
5.		**ECTS**	6
6.		**Goals of the study programme**	
		The main goal of this course is for students to gain experience in preparing oral and written reports from data analysis and to get acquainted with the basic statistical analyzes of descriptive and inference statistics.Students will learn to operate open source software packages for data analysis and processing and commercial statistical data processing software and will be introduced to the basics of statistical programming.	
7.		**Contents of the study programme**	
		Import data. Summary of homogeneous data: Tree and leaf diagrams, box-plot, qq-plot, data transformations, histograms.Confidence intervals. Hypothesis testing, Establishment of a relationship between two variables, scatter plot, log plot, regression, log-regression. Time series analysis. Multi-variant analysis. Data modeling. Data analysis with SPSS (or Stata or SAS), work in Excel and basics of programming in R and / or Python.	