

DESCRIPTION OF THE COURSE OF STUDY FOR EXCHANGE STUDENTS

Name of the course in	English	<i>Statistical packages</i>
	Polish	<i>Pakiety obliczeń statystycznych</i>

1. LOCATION OF THE COURSE OF STUDY WITHIN THE SYSTEM OF STUDIES

1.1 Field of study	<i>Mathematics</i>
1.2 Level of study	<i>Undergraduate (BSc)</i>

2. GENERAL CHARACTERISTICS OF THE COURSE OF STUDY

2.1 Language of instruction	<i>English</i>
2.2 Semesters in which the course of study is offered	<i>Winter (5)</i>
2.3 ECTS credits	<i>3</i>

3. DETAILED CHARACTERISTICS OF THE COURSE OF STUDY

3.1. Form of classes	<i>laboratory sessions</i>
3.2. Form of assessment	<i>credit with grade</i>

4. OBJECTIVES AND SYLLABUS CONTENT

4.1. Course objectives

C1. Presentation of the possibilities of computer tools supporting statistical analyzes (on the example of the Statistica and R programs).

C2. Shaping the skills of using computer programs for statistical analysis.

C3. Developing the student's ability to plan his/her own work and cooperation in the group during the implementation of the project.

4.2. Detailed syllabus

Data pre-processing. Overview of tools supporting statistical calculations in Excel. Data analysis and graphics with Statistica. R environment, basic installation and additional packages. Syntax and basic R structures, data loading methods. User-written functions in R. Graphics in R. Descriptive analysis and statistical inference with R.