

1. Title of subject/module/unit		Biostatistics				
2. Unit code		3. Number of ECTS credits			6	
4. Contact hours		Total 48	L 18	E 24	S 6	Other forms
5. Cycle	Master's	6. Year	1st	7. Semester	1st	
8. Study programme		International Master of Science in Horticulture		9. Branch of study		
10. Pillar of the programme		Compulsory		11. Language	English	
12. Special features						
13. Objectives and subject-specific competences		Knowledge about experimental design and basic statistical approaches to analyze data collected from experiments and how to handle the data using computer software. Student will learn statistical functions built in Excel and in dedicated software, various procedures of data management and interpretation of the results.				
14. Description of content		Principles of data management, descriptive statistics, measures of variation, experimental design, experimental errors, hypothesis testing, methods of variate comparison, analysis of variance, regression, correlation, non-parametric test, exploratory techniques.				
15. Basic bibliography		Electronic Statistical Textbook, Statsoft: http://www.statsoft.com/textbook/ University of Reading Statistical Service Centre: http://www.reading.ac.uk/ssc				
16. Envisaged learning outcomes		<i>16.1 Knowledge and understanding</i>		The student knows methods of data description, available methods of data analysis for comparison purposes, basic exploratory techniques, principles of experimental design.		
		<i>16.2 Application</i>		The student applies rules of data management and presentation, designs experiments, uses the appropriate statistical methods for data analysis.		
		<i>16.3 Reflection</i>		The student is capable of formulating statistical hypotheses, interpreting the output of statistical analyses.		
		<i>16.4 Transferable skills – not tied to just one subject</i>		Teamwork, ability to write reports and present them to the public.		
17. Methods of teaching and learning		Lectures and practicals with computers.				
18. Conditions for inclusion or to undertake work required		Enrolment in the year of the course. Basic computer skills.				
19. Methods of assessment and the assessment scale		- Written exam (40%) - Attendance at laboratory practicals and preparation of laboratory Reports (40%) - homeworks (20%) Evaluation scale: Grades from 2.0 (worst) to 5.0 (best)				
20. Method of evaluation of course quality		Student questionnaire				
21. Curriculum compiler		Dr. Rafal Baranski, University of Agriculture in Krakow				