Specification of the course for the Book of courses

Study program		Applied statistics	
Title of the course		Introduction to Biotechnical Sciences	
Teachers (for lectures)		Nada Lakić, Nebojša Ralević	
Teacher/fellow teacher (for exercises)		Svjetlana Šoja	
ESPB	6	**Status of the course (obligatory (O) /elective (E))**	E

Conditions	
Aim of the course	The aim of the course is to enable student to get the basic knowledge necssary for application of statistical methods in agriculture research and for statistical analysis of obtained data.
Course outcomes	Adequat representation of experimental data, application of valid statistical methods and inference based on obtaind results.
Content of the course	
Theoretical classes	Experiment design problem, assumptions and principels of experiment design, experimental unit and variables, sources of data. Constructing data frames for statistical analysis. Graphical representation of experimental results. Choice of statistical models depending on the research goals and data types. Methods and models in plant production: crop farming, vegetable farming, fruit production and viticulture. Methods and models in zootechnics. Application of statistical methods in agricultural technology. Application of statistical methods in terrain examination and melioration. Statistical quality control in food industry. Application of statistical methods in agroeconomics.
Practical classes	Practical classes are held for each group.
References	
1	Хаџивуковић С. (1969): Планирање експеримента .Пољопривредни факултет, Нови Сад.
2	Mead, R. and Curnow, R. C. (1983): Statistical methods in agriculture and exerimental biology, Chapman and Hall, New York.
3	Merton R. H. (2003): Statistical Quality Control for the food Industry, Kluwer Academic/Plenum Publishers, New York.
4	Naes T., Brockhoff B. R., Tomic O. (2010): Statistics for Sensory and Consumer Science, John Wiley & Sons, New York.
5	Navadi W. (2011): Statistics for Enginers and scietists, The Mc Graw-Hill Companies, New York.
6	Sheskin D. (2004): Handbook of parametric and nonparametric statistical procedures, Chapman&Hall, New York.
7	Scientific papers from domestic and foreign jounals

The number of contact hours per week during the semester / trimester / year

Lectures	Exercises	DON	Research work	Other classes
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Teaching methods	Lectures and exercises

Evaluation of knowledge (maximum score 100)

Pre exam duties	points	Final exam	points
activities during lectures	5	**Written exam**	25
practical work	10	**Oral exam**	40
seminar	20		