Specification of the course for the Book of courses

Study program		Applied statistics	
Title of the course		Statistical Methods in Psychology II	
Teachers (for lectures)		Lazar Tenjović	
Teacher/fellow teacher (for exercises)		Aleksandar Zorić	
ESPB	6	**Status of the course (obligatory (O) /elective (E))**	E

Conditions	
Aim of the course	The aim of the course is to introduce students to advanced statistical meethods in psychology.
Course outcomes	Upon th completition of the course, student will be able to use statistical methods learned in this course and interpretate results obtained with these methods.
Content of the course	
Theoretical classes	Log-linear models. Logit models. Logistic regression. Generalized linear models (link functions for categorical data). Analysis of corresondence, categorical analysis of principle components, categorical regression analysis (Catreg) and non-linear canonical correlation analysis (Overals)
Practical classes	Practical classes will consist of the application of statistical procedures from the theoretical classes on real data from psychological research.
References	
1	Momirović, K.(1988). *Analiza nominalnih varijabli*. Ljubljana: JUS
2	Agresti, A. (2002). *Categorical Data Analysis (Second edition)*. New Jersey: Wiley.
3	Christensen, R. (1990). *Loglinear models and logistic regression*. New York: Springer-Verlag, Inc.
4	DeMaris, A. (1992). *Logit modelling Practical Aplications*. Newbury Park, CA: SAGE Publications, Inc.
5	Van de Geer, J.P. (1993). *Multivariate Analysis of Categorical Data: Theory*. Newbury Park, CA: SAGE Publications, Inc.
6	Van de Geer, J.P. (1993). *Multivariate Analysis of Categorical Data: Applications*. Newbury Park, CA: SAGE Publications, Inc.
7	Hair, J.H., Tatham, R.L., Anderson , R.E., Black, W ( ). *Multivariate Data Analysis* (Fifth edition). Prentice Hall.
8	Stevens, J. (2002). *Applied Multivariate Statistics for the Social Sciences*. New Yersey: Lawrence Erlbaum Associates.

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

Lectures	Exercises	DON	Research work	Other classes
2	2	----	------	------

Teaching methods	Lectures and exercises

Evaluation of knowledge (maximum score 100)

Pre exam duties	points	Final exam	points
practical work	20	**written exam**	60
colloquia	20		