

Course syllabus

1. Core data

Course code	Credits	Semester
7SO30NDVT5B	6	2024/25/2
Course title in Hungarian		
Quantitative Research and Data Analysis II.		
Course title in English		
Quantitative Research and Data Analysis II.		
Course title in other language		
Course leader	Institute	
Hajdu Miklós	Institute of Social and Political Sciences	
Language of instruction	Type of final assessment	
English	Exam	
Number of theoretical classes per week (full-time programmes)	Number of practical classes per week (full-time programmes)	
2	2	
Number of theoretical classes per semester (part-time programmes)	Number of practical classes per semester (part-time programmes)	
0	0	
Available for preferential study schedule		
No		

2. Main features

Course objectives
Students learn statistical methods that can be used with categorical variables.
Brief description of the course
In the previous semester, we focused on two things: the general logic of research and linear regression analysis, the statistical method most often used in empirical social inquiry. Linear regression is a very flexible procedure that can be used to answer a great number of different research questions. It imposes no constraints on the independent variables – they can be numerical, categorical, or both. Categorical independent variables like gender or marital status can easily be included in the model using dummy variables. The flexibility of linear regression is not without boundaries, however. While the independent variables can be of any sort – the dependent variable must be numerical. This is not a minor restriction; in social research, we often encounter situations in which the dependent variable is categorical, rather than numerical. It is, therefore, important to supplement our treatment of linear regression with a discussion of other methods that can be used with categorical dependent variables. In this semester, we will cover two such methods, contingency table analysis and logistic regression.
Relationship with other courses of the programme
The course builds on Quantitative Research and Data Analysis I.

3. Learning outcomes

Skill	Knowledge	Attitude	Autonomy and Responsibility
Students become able to use the SPSS software.		Students will develop a critical attitude towards the results of data analyses.	Students will be able to perform analytical tasks in independently and autonomously.
Students will be able to perform contingency table analysis.	Students learn statistical methods that can be used with categorical dependent variables.		
	Students learn statistical		

	methods that can be used with categorical independent variables.		
Students will be able to perform logistic regression.	Students learn statistical methods that can be used with categorical dependent variables.		
	Students learn statistical methods that can be used with categorical independent variables.		

4. Mandatory readings

Required literature	URL
Alan Agresti: An Introduction to Categorical Data Analysis	