



Taras Shevchenko National
University of Kyiv

COURSE GUIDE

EC2.03 METHODS OF SOCIO.SPATIAL ANALYSIS



Faculty of Sociology

COURSE INFO	
Title	Methods of Sociospatial Analysis
Code	EC2.03
Field of study	054 Sociology
Degree level	Master
Study program	Sociology (language of instruction - English)
Type	elective
Semester	4
ECTS credits	5.00
Language of instruction	English
Final control	exam
Instructor	Dr. Aliona Liasheva
SUMMARY	
<p>The amount and quality of spatial data is growing every year. For sociologists, this kind of data becomes an important source of knowledge about social processes. This course develops basic skills in QGIS - a software environment for processing and analyzing spatial data. In addition, the objectives of the course are to show how spatial data can help to study social processes in more detail, and how to present the findings of socio-spatial analysis.</p>	
PREVIOUS KNOWLEDGE	
<ol style="list-style-type: none">1. Basic conceptual apparatus of sociology2. Proficiency in English at B1 level or higher3. Successful completion of Quantitative Social Data Analysis (CC06)	
COMPETENCES	
GC03	Ability to communicate with representatives of other professional groups of various levels (with experts from other branches of knowledge / industries)
SC11	Ability to apply state-of-the-art methods of collection and analysis of sociological data in a justifiable way to solve practical issues
COURSE LEARNING OUTCOMES	
1.1	Understand the specifics of methodology and methods of spatial data analysis
2.1	Be able to perform operations of processing and analysis of spatial data in the QGIS software



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3.1	Be able to visualize and present spatial data in presentations of sociological research findings
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EVALUATION

30 points	Six practical assignments completed in classroom	
30 points	Six practical home assignments	
40 points	Final exam Admission to exam threshold: 36 points	
Grade explication	90-100	Excellent
	75-89	Good
	60-74	Satisfactory
	0-59	Fail

COURSE STRUCTURE

CHAPTERS	WORKLOAD (in hours)		
	lectures	seminars	self-study
1. Sociological methods of studying space			
1. Specifics of spatial data analysis	2	2	12
2. Application of QGIS			
2. Introduction to QGIS	2	2	14
3. Data sources	2	2	14
4. Creating maps: classification of vector data, map layers	2	2	16
5. Spatial data analysis: vector analysis, rasters			
3. Visualization and presentation of spatial data			
6. Use of visualized data in the presentation of sociological research findings	2	4	16

READINGS

Required

- Thiede, Rüdiger et al. (2021) QGIS Training Manual. Electronic source: https://docs.qgis.org/3.16/en/docs/training_manual/index.html
- Steven J. Steinberg and Sheila L. Steinberg. 2006. GIS: Geographic Information Systems for the Social Sciences. Thousand Oaks, CA: Sage Publications.



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3. Mitchell, Andy. 1999. The ESRI Guide to GIS Analysis, Volume 1: Geographic Patterns and Relationships. Redlands, CA: ESRI Press.
4. Mitchell, Andy. 2005. The ESRI Guide to GIS Analysis, Volume 2: Spatial Measurements and Statistics. Redlands, CA: ESRI Press.
5. Lloyd, Christopher D. 2010. Spatial Data Analysis: An Introduction for GIS Users. Oxford, UK: Oxford University Press.

Additional

1. Steinberg and Steinberg (2006) GIS for the Social Sciences, SAGE Publications, Thousand Oaks, CA.
2. Cope and Elwood (2009) Qualitative GIS: A Mixed Methods Approach, SAGE Publications, Thousand Oaks, CA.
3. O'Sullivan, David and David J. Unwin (2010), Geographic Information Analysis, 2nd Edition, Wiley Publishing.
4. Enos, Ryan (2017), The Space Between Us: Social Geography and Politics, Cambridge University Press.
5. Menke, Kurt et al, Mastering QGIS, Packt Publishing, 2015

Other sources

1. <http://moodle.soc.univ.kiev.ua/>