

Kaposvar University Faculty of Economic Science
Kaposvár, Guba Sándor u. 40.

COURSE DESCRIPTION AND REQUIREMENTS

Course name: Regional and environmental analytical methods

Code: 3BRTS1REA00000

Study programme: Regional and Environmental Economics

BA / MA

Form of programme: FULL TIME

Lessons per week: 4 seminars

Type of evaluation: seminar mark

Course leader: Bernadett Horváthné Dr. Kovács

Teacher: Bernadett Horváthné Dr. Kovács

Department of course: Regional Studies and Statistics

Head of department: Dr. Zoltán Gál, associate professor

2015/2016 spring semester

Objectives of the course:

The course pays pivotal attention to methodologies used widely in measuring impacts of European cohesion policy; such as Communicating and Measuring Progress in Regulatory Reform is a key priority for the OECD Regulatory Policy Committee. Main areas of study: measurement requirements of policies; theoretic grounding, techniques to improve reliability of analyses; implications (case studies) of territorial analysis with special regard to the EU 2020 strategy priorities. The curriculum gives fundamentals to how to create better government systems and implement policies at both national and regional levels that lead to sustainable economic and social development.

The students attending the course will be able to approach and evaluate territorial/regional analysis results and to use them in decision making processes of policy.

Requirements

Attendance on lessons is obligatory. Missing from more than 1/3 of lessons automatically leads to failing the course.

Mid term exam (50%) and assignment (50%) will be used to define the mark.

Evaluation of exam:

-50,00% failed	(E)
50,01-62,50% satisfactory	(D)
62,51-75,00% moderate	(C)
75,01-87,50% good	(B)
87,51%- very good	(A)

Course thematic:

NO.	THEMES
1.	Introduction. Assesment of using spreadsheet.
2.	Improvement of spreadsheet skills.
3.	Spatial data, source, variables.
4.	Simple analytic methods I.
5.	Simple analytic methods II.
6.	Analysis of relating data I.
7.	Analysis of relating data II.
8.	mid term exam I.
9.	---
10.	Spatial inequalities I.
11.	Spatial inequalities II.
12.	Introduction to multivariable analysis of spatial data.
13.	Assignment writing
14.	Consultation

Literature

- handouts
- Horváthné – Nagy (2014): Applied regional analytic methods. Text and workbook. Kaposvar University pp.141. (downloadable from neptun)
- Bruce Kendall and Chris Costello: Data Analysis for Environmental Science and Management. Publ: Donald Bren School of Environmental Science and Management. University of California, Santa Barbara. Spring 2006

Selected papers

- Anselin, L. - Griffith, D. A. 1988: Do spatial effects really matter in the regression analysis? Papers of the Regional Science Association, Vol 65., pp. 11-34.
- Blaut, J. 1961: Space and process. Professional Geographers, Vol. 13., pp.1-7.
- Bogardus, E. S. 1959: Social distance. Antioch Press, Yellow Springs, Ohio
- Couclelis, H. 1982: Location, place, region and space. (In: Abler, R.F. et al. ed. 1982, Geography's inner World. Pervasive themes in contemporary american geography. Rutgers University Press, New Brunswick, N. J., pp. 215-233.)
- Dacey, M. F. 1962: Analysis of central place and point patterns by nearest neighbor method. Lund Studies in Geography, Ser. B., No. 24. pp. 55-75.
- Getis, A. - Boots, B. 1977: Models of spatial processes. Cambridge U. P., Cambridge

- Isard, W. 1960: Methods of regional analysis: an introduction to Regional Science. The M.I.T.Press, Cambridge, Mass.
- King, L. J. 1962: A quantitative expression of the pattern of urban settlements in selected areas of the United States. Tijdschrift voor Econ. en Soc. Geografie, No.1., pp. 1-7
- Upton, G. - Fingleton, B. 1985: Spatial data analysis by example. J. Wiley & Sons, Chichester
- Gaston Heimeriks and Loet Leydesdorff Emerging Search Regimes: Measuring Co-evolutions among Research, Science, and Society (<http://arxiv.org/ftp/arxiv/papers/1101/1101.2591.pdf>)
- EUROSTAT

Kaposvár, 21 January 2016



Bernadett Horváthné Dr. Kovács
associate prof.



Dr. Zoltán Gál
head of dept, ass. prof.