

UNIVERSITY OF RUSE “ANGEL KANCHEV”
Faculty “Business and Management”

Approved by
Director BRIE:.....
(Assoc. Prof. Dr. M. Kornazheva)
Dean:.....
(Assoc. Prof. Dr. E. Trifonov)

SYLLABUS

of module unit **0774 Methods of Regional Analysis**
included as obligatory in the curriculum of
master program: **EUROPEAN STUDIES AND PUBLIC ADMINISTRATION**
from professional route **3.7 ADMINISTRATION AND GOVERNANCE**
of the academic field **3. SOCIAL AND ECONOMIC STUDIES AND LAW**
for education-and-qualification level **MASTER**
department **41. European Studies**

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S Y L L A B U S

of module unit **0774 Methods of Regional Analysis**

I. CURRICULUM DATA

№	Module unit code	Code of department	MODULE UNIT	ECTS credits	Total number of contact hours	Total number of weekly contact hours				Form of assessment	Independent study	
						Lectures	Seminars	Laboratory work per week	Practical exercises		Type of work	Hours/stud.
3	0774	41	Methods of Regional Analysis	6	30	2				E	p	2.0

II. LEARNING OUTCOMES

The course helps students to acquire knowledge and develop skills in the use of modern methods and technologies for regional analyzes in the field of demography, economics, policy and governance at the regional level.

Subjects of the lectures are issues related to the information and modeling, data collection, field research, questionnaires preparation, processing and presentation of data, the use of statistical methods for regional analysis.

Inputs: The course is in the first year and not require prerequisites of other subjects, but knowledge from undergraduate training for collecting, processing and analyzing data can be helpful for students.

Outputs: The uptake of knowledge and skills during the course of the study may be useful in disciplines and tasks associated with the research and information search, processing and analyzing data, solving practical problems in the field of regional analyzes, and in their future experience.

Expected Results

Knowledge: In this course, students will gain knowledge about sarvremennite methods of regional analysis to study the views of different groups of respondents, and processing and analyzing quantitative information.

Skills: By solving specific tasks within the course students will develop skills to collect and analyze information from regional development: use of spreadsheets, cloud technologies for communications and surveys.

Competencies: In embodiments of the tasks and the use of lectures, students will develop professional competence in organizing research, process, analyze and present the results of regional studies.

III. CONTENTS OF THE SYLLABUS

LECTURES

№	Topic	Contact hours
1.	Introduction in regional analysis	1
2.	Information and models. Quantitative and qualitative Information. Quantitative and qualitative approaches.	1
3.	<i>Choosing of research topic problem. Defining hypotheses.</i>	1
4.	Models and model abstractions. Types of models.	1
5.	Data collection methods.	1
6.	Timing and quantity of data collection. Types of data.	1
7.	<i>Collecting of secondary data on research topic.</i>	1
8.	Analyzing of collected information.	1
9.	Sampling methods. Types of samples.	1
10.	Sample size calculation.	1
11.	Type of surveys. Personal interview. Telephone interview. Postal survey.	1
12.	Panel survey. Longitudinal survey.	1
13.	Rules of creating questionnaires. Structure of the questionnaire	1
14.	Designing of a questionnaire on research topic. Testing and refining of the questionnaire.	1
15.	Creating an e-questionnaire. Organizing the	1

	collection of answers.	
16.	Methods of data transformation and presentation.	1
17.	Data reduction. Data Presentation by diagrams.	1
18.	Methods of data presentation by tables and graphs.	1
19.	Methods of data presentation by charts and pictograms.	1
20.	Transforming of collected data from the e-questionnaire. Analyzing of information.	1
21.	Statistical methods in regional analysis. Types of methods.	1
22.	Descriptive statistics.	1
23.	Inferential statistics.	1
24.	Tabulating and graphing data. Percentiles.	1
25.	Five-number summary. Box and whisker plot results.	1
26.	Frequency distribution. Frequency tables. Percentage frequency distribution.	1
27.	Creating and reading histograms.	1
28.	Creating of diagrams for data presentation of research topic.	1
29.	Analyzing of research results. Accepting/rejecting of hypotheses.	1
30.	Writing of research report. Creating conclusions.	1
	Total	30

IV. METHODS OF TEACHING AND LEARNING

1. Teaching methods

The course is conducting by lectures and individual tasks.

The lectures present the basic principles and specificities of the methods of regional analysis. Lectures are presenting by PowerPoint presentations, and for the functionality and practical solutions of regional analyses are using direct demonstration of information technology (incl. Online). Students are learning the methods and the rules for field research, for looking of demographical, political and economic information, and for regional data analyzes etc. The lectures provide the necessary theoretical knowledge and technology for the implementation of individual tasks.

2. Methods of learning

Students can supplement additional knowledge by using textbooks, websites and published materials on the subject. By solving the individual problems students build practical skills to use what they have learned independently and creatively apply acquired knowledge of theory and develop the ability to research and solve practical problems.

3. Forms of continuous assessment

The theoretical knowledge acquired by the students are verified by a test at the end of the semester. To assess the level of acquired skills by the students are using individual coursework by each student.

The assessment is done by a written test, which includes theoretical questions of different types (open questions, T/F, multiple choice questions, etc.). Time for the final test is 45 min.

The final grade is based on the results of the test (50%) and evaluation of the individual task (50%).

V. LEARNING SOURCES

1. Coccossis H. and Psycharis Y. (2010), *Regional Analysis and Policy: The Greek Experience*, 1st ed, Physica.
2. Fischer M. M. and Wang J. (2011) *Spatial Data Analysis: Models, Methods and Techniques*, Springer.
3. Gaber J. (2007), *Qualitative Analysis for Planning & Policy: Beyond the Numbers*, APA Planners Press.
4. Hewings G, Sonis M. and Boyce D. (2010), *Trade, Networks and Hierarchies: Modeling Regional and Interregional Economies*, 1st ed 2002, Springer
5. Nermend K. (2010), *Vector Calculus in Regional Development Analysis: Comparative Regional Analysis Using the Example of Poland*, 1st ed, Physica
6. Vartanian T. P. (2010), *Secondary Data Analysis*, 1st ed, Oxford University Press, USA;

Module unit leader:.....
Director BRIE: Assoc. Prof. Dr. M. Kornazheva.....

0774 Methods of Regional Analysis

ECTS credits: 6	Weekly workload: two-hour lectures
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Assessment: exam	Type of exam: written and oral
Department involved: European Studies	Faculty: Business and Management
Lecturer: Assoc. Prof. A. Petkov	E-mail: apetkov@uni-ruse.bg
<p>Abstract</p> <p>This course aims:</p> <ul style="list-style-type: none"> • To acquaint students with the various research methods; • To improve their skills of implementing these methods of analysis and prognosis; • To equip students with the methodological skills for regional and EU analysis in the spheres of regional demography, sociology, economics. <p>Course content</p> <p>Subjects of the lectures are issues related to the information and modeling, data collection, field research, questionnaires preparation, processing and presentation of data, the use of statistical methods for regional analysis.</p> <p>Teaching and assessment</p> <p>The course is conducting by lectures and individual tasks.</p> <p>The theoretical knowledge acquired by the students are verified by a test at the end of the semester. To assess the level of acquired skills by the students are using individual coursework by each student.</p> <p>The assessment is done by a written test, which includes theoretical questions of different types (open questions, T/F, multiple choice questions, etc.). Time for the final test is 45 min.</p> <p>The final grade is based on the results of the test (50%) and evaluation of the individual task (50%).</p>	

Peer review

Peer reviewer:.....
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