COURSE INFORMATION SHEET

STUDY PROGRAM: Geography and Land Management

Degree: Second

English version

University Name: University of Prešov

Faculty: Faculty of Humanities and Natural Sciences

Course code: 2GAG/MKATK/24	**Course Title:** Anthropogenic Transformation of the Landscape

Type, load and method of training activities:
Total number of hours: 90 hours
Number of hours of contact lessons: 20 hours

- Lecture: 1 lesson per week = 10 lessons
- Seminar: 1 lesson per week = 10 lessons

Individual preparation for the seminar: 40 hours
Self-study and preparation for the exam: 30 hours
Method: combined

Number of Credits: 3

Recommended term of study : 3rd term

Degree of study: 2nd degree in the study programme: Geography and Land Management

Prerequisites: -

Conditions for course completion:

1. Preparation of assignments - each student must correctly and by the deadline prepare individual assignments on previously prepared topics that make up the curriculum of the course Anthropogenic transformation of the landscape.
2. Assessment - written test: to obtain grade A (excellent) must obtain at least 90%, to obtain grade B 80%, to obtain grade C at least 70%, to obtain grade D 60%, to obtain grade E at least 50%. A student scoring less than 50% will be graded with a grade of FX.

Credit will not be awarded to a student who fails to submit assignments of adequate quality and by the due date and scores less than 50% on the written test. Two detected unexcused absences from seminars are grounds for an overall grade of FX.

Learning outcomes: *student will be able to:*
Knowledge:
The student can define and interpret the object and subject of anthropogenic geomorphology. List the basic features and differences of natural and cultural landscapes. Describe a brief overview of the historical stages of human influence on landscape and landforms. Explain the different approaches to the systematization and classification of anthropogenic landforms. Characterize the different anthropogenic landforms according to genetic classification.
Skills:
Applies the acquired knowledge in assessing the intensity of impact and the degree of transformation of landscape and relief. Independently interprets information from literature and other sources related to the field of anthropogenic geomorphology. Identifies phenomena and processes occurring in the landscape as a result of human activity and interprets them in a relational context.
Competencies:
The student can professionally and comprehensibly formulate conclusions that result from the analysis of the transformation of landscape and relief by human activity. Identifies the processes and describes the various anthropogenic landforms that result from these processes.

Course Syllabus:

Syllabus of Lectures:
1. Anthropogenic geomorphology as a scientific discipline.
2. 2. Terminology and overview of systematization and classification of anthropogenic geomorphology.
3. Brief overview of the historical stages of human influence on landscape and relief.
4. Methods for assessing landscape and landform transformation.
5. Mining and industrial anthropogenic landforms.
6. Agricultural and forestry anthropogenic landforms.
7. Urban anthropogenic landforms.
8. Transport and telecommunication anthropogenic landforms.
9. Water management anthropogenic landforms.
10. Military and funeral anthropogenic landforms.
11. Celebrational, recreational and sport anthropogenic landforms.
12. Anthropogenic landforms used for scientific and educational purposes.
13. Final Evaluation.

Syllabus of Seminars:

1. Introductory seminar (introduction to the work system and evaluation criteria).
2. Distribution of assignments according to the thematic focus and timetable.
3. Assignment 1: Orientation in the literature, collection and processing of sources on the topic in the field of anthropogenic geomorphology.
4. Assignment 2: Case study of a selected group of anthropogenic landforms according to the genetic-morphological classification and its application to specific examples in the world.
5. Presentation of Assignment 2, discussion and recommendations.
6. Presentation of assignment 2, discussion and recommendations.
7. Task 3: Case study of a selected group of anthropogenic landforms according to the genetic-morphological classification and its application to concrete examples in Slovakia.
8. Presentation of Assignment 3, discussion and recommendations.
9. Presentation of assignment No.3, discussion and recommendations.
10. Task 4: Assessment of anthropogenic transformation of the landscape on the example of a specific territory.
11. Presentation of Assignment 4, discussion and recommendations.
12. Final colloquium and evaluation of assignment results.
13. Final written test.

Recommended bibliography and other sources:

BIZUBOVÁ , M. - ŠKVARČEK , A. 2009. Geomorfológia. Bratislava: Univerzita Komenského, 2009, 228 s. BROWN, E. H. 1970. Man Shapes the Earth. The Geographical Journal, 136, 1970, s. 74-85. ČECH, V. – KROKUSOVÁ J, 2013. Antropogénna geomorfológia: (antropogénne formy reliéfu), 1. vyd. - Prešov: Fakulta humanitných a prírodných vied PU, 2013. - 179 s. - ISBN 978-80-555-1037-8. ČERVINKA, P. 1995. Antropogenni transformace přirodni sfery. UK Praha: Karolinum, 1995, 68 s. GERMAN , R. 1977. Anthropogenic Geomorphological Features in Central Europe, Mitteilungen, Nr. 8, Tübingen. 43, 1977. GOUDIE, A. S. 2004. Anthropogeomorphology. In. Goudie, A.S. ed.: Encyclopedia of geomorphology I. (A-I), London: Routledge, 2004, s. 25-27. HAVRLANT, M. 1980. Antropogenní formy reliéfu a životní prostředí v ostravské prumyslové oblasti. Praha: SPN, 1980, 153 s. ISBN 14-054-80. KIRCHNER, K. – SMOLOVÁ, I. 2010. Základy antropogenní geomorfologie. Olomouc: Univerzita Palackého Olomouc, 2010, 287 s. ISBN 978-80-244-2376-0. LACIKA, J. 1999. Antropogénna transformácia reliéfu ako indikátor trvalej udržateľnosti. Banská Bystrica: FPr UMB, 1999, s. 128 – 137. ISBN 80-8055-471-4. LÓRÁNT, D. 2012. Introduction to Anthropogenic Geomorphology. In: Piacentini, P. ed.: Studies on Environmental and Applied Geomorphology, 2012, s. 267-280. SZABÓ, J., DÁVID, L., LÓCZY, D. eds. (2010): Anthopogenic geomorphology. Springer, 298 s. ZAPLETAL, L. 1968. Geneticko-morfologická klasifikace antropogenních forem reliéfu. In: Acta facultatis Palackianae Olomoucensis Facultas rerum Naturalium Tom 23 Geographica – geologica VIII, Praha: SPN, 1968, s. 239 - 427. ZAPLETAL, L. 1969. Úvod do antropogenní geomorfologie. Olomouc: UP, 1969.

Required language skills:
Slovak language

Notes: course is running during winter semester only

Course assessment:

A	B	C	D	E	FX
-	-	-	-	-	-

Lecturer: RNDr. Juliana Krokusová, PhD.

Date of latest revision: 31.10.2024

Approved by: prof. Ing. Jozef Vilček, PhD.

Faculty Name: Faculty of Humanities and Natural Sciences

Course code: 2GAG/MKKRS/24	**Course title:** Competitiveness of Slovak regions

Type, load and method of training activities:
Total number of lessons: 150
Number of contact lessons: 30

- Lecture: 2 lessons per week = 20 lessons
- Seminar: 1 lesson per week = 10 lessons

Individual preparation and preparation of assignments for the seminar: 20 lessons
Preparation of the semester project: 50 lessons
Self-study and preparation for the exam: 50 lessons
Method: combined

Number of Credits: 5

Recommended term of study: 2nd term

Degree of study: 2nd degree in the study programme: Geography and Land Management

Prerequisites:

Conditions for course completion:

1. Continuous written test: To obtain the evaluation of A (excellent) must achieve at least 90%, to obtain a rating of 80% B, C for the evaluation of at least 70%, for the evaluation of D 60%, E for the assessment of at least 50%. A student who receives less than 50% of the assessed level of FX.
2. Test - Final written test and oral exam: To obtain the evaluation of A (excellent) must achieve at least 90%, to obtain a rating of 80% B, C for the evaluation of at least 70%, for the evaluation of D 60%, E for the assessment of at least 50%. A student who receives less than 50% of the assessed level of FX.
3. Preparation of one presentation at a seminar (each pair of students prepare for semester 1 ppt presentation (range min. 10-12 frames), according to the agreed timetable, focusing on problematic issues of regional geography Slovak Republic - Slovak competitiveness of regions, problematic regions of Slovakia , its cause, the consequences of their existence, the possibility of reducing regional disparities.

More than 50% continuous assessment of written test allows the student to advance to the final examination. Credits will not be awarded to a student who failed to complete the progress or final written test and an oral examination, which won for the presentation of evaluation FX or student who has not drawn a mandatory presentation to a timetable or a student who has not been active for 3 or more seminars. The activity means the presentation presentations and engages in discussions (question, comment, comment, critical remark). Twice observed non-participation in the seminar is the reason for admission to the final assessment. Overall Rating object depends on the success of the student's final written test and oral examination (paragraph 2).

Educational Outcomes: By the end of the course, students will be able to:
Knowledge:
- understand and be able to summarize knowledge about theories, methods and indicators of evaluation of regional differences in Slovakia,
- will be able to analyze the concept of regional competitiveness in application to the conditions of the Slovak Republic,
- can analyze and evaluate the basic regional structures of the Slovak Republic,
- will be able to identify the current state of regional structures in the spatial geographical context of the Slovak Republic,
- can explain and determine the development of regional structures in the Slovak Republic and the main factors that affect them;
- can classify and explain the laws and internal links between individual structures,
- will be able to identify the main groups of factors influencing uneven socio-economic development in individual regions of Slovakia.,
- will be able, on the basis of an analysis of individual factors, to estimate and identify possible further directions for the development of regional disparities,
- will be able to apply knowledge of the main problem regions of the Slovak Republic in analytical working procedures leading to the derivation of relationships and contexts in a particular territory.

Skills:
- apply the lessons learned in his presentation when applying for jobs requiring geographic expertise;- process statistical data,
- separately acquire and interpret geographic information from literature and other sources,
- apply the procedure of Hettner scheme geographic scheme of planning, developing and coordinating the preparation of a comprehensive geographic characteristics of the selected area;

Course Syllabus:
Syllabus of Lectures:

1. The concept of competitiveness, different views on the concept
2. Review of previous work devoted to the subject, basic characteristics and regional structures to the differences between regions
3. Slovakia and regional differences - Theories regions, indicators, methods 1
4. Slovakia and regional differences - Theories regions, indicators, methods 2
5. Index of regional business environment - an overview of indicators, evaluation subindices in the regions of Slovakia
6. Factors affecting regional structures and their impact on regional differences: The primary potential area,
7. Factor territorial and administrative subdivision of the state, settlement hierarchy factor, Factor settlement pattern,
8. Factor macrolocation attractiveness factor, factor underdevelopment adjacent regions of neighboring states, factor (disadvantageous) economic specialization of regions Factor "large" transport infrastructure
9. Factor specificities demographic structures,
10. Factor historical marginality,
11. Identification of specific problem areas in the Slovak Republic and the reasons for their problems in,
12. Reducing regional disparities and increasing the competitiveness of regions in the context of SR,
13. More options troubled regions and direction of their development.

KOREC, P. (2005): Regionálny rozvoj Slovenska v rokoch 1989-2004, Geografika, Bratislava, s.219. MICHÁLEK, A. (2004): Meranie chudoby v regiónoch (okresoch SR), Sociológia, roč.36, č.1, s.7-30, ISSN 0049-1225. LUKNIŠ, M. (1985): Regionálne členenie Slovenskej socialistickej republiky z hľadiska jej racionálneho rozvoja, Geografický časopis, roč.37, č.2-3, s.137-163. HAMPL, M. a kol., (1996): Geografická organizace společnosti a transformační procesy v České republice, Přírodovědecká fakulta Univerzity Karlovy, s. 394. RAJČAKOVÁ, E. (2005): Regionálny rozvoj a regionálna politika, UK Bratislava, 120s., ISBN 80-223-2038-2. HAJKO, J., KLÁTIK, P., TUNEGA, M., (2011): Konkurencieschopné regióny 21 - 2010, Podnikateľská aliancia Slovenska, Bratislava, 450 s. SLOBODA, D., (2006): Slovensko a regionálne rozdiely – teórie, regióny, indikátory, metódy, Komzervatívny inštitút M.R.Štefánika, Bratislava, 49 s. MORVAY, K., MARUŠINEC, J., (2009): Monitoring konkurencieschopnosti regiónov SR, M. E. S. A. 10, Analýzy – Argumenty – Názory, č.5, 2009, Bratislava, 36 s.

Required language skills:
Slovak language

Notes: The course is taught only in summer term.

Course assessment:
The total number of assessed students:

A	B	C	D	E	FX
-	-	-	-	-	-

Lecturer: doc. RNDr. Radoslav Klamár, PhD., RNDr. Martin Angelovič, PhD.

Date of the latest revision: 31.10.2024

Approved by: prof. Ing. Jozef Vilček, PhD.

University Name: University of Presov in Presov

Faculty Name: Faculty of Humanities and Natural Sciences

Code: 2GAG/MKKRR/24	**Title of Course:** Concept of regional development

Type, load and method of training activities:
Total number of lessons: 150 lessons
Number of contact lessons: 30 lessons

- Lecture: 2 lessons per week = 20 lessons
- Seminar: 1 lesson per week = 10 lessons

Individual preparation and preparation of assignments for the seminar: 40 lessons
Self-study and preparation for the exam: 80 lessons
Method: combined

Number of Credits: 5

Semester: 3rd term

Degree/Level: 2nddegree in the study programme: Geography and Land Management

Prerequisites: -

Grading Policy (Assessment/Evaluation):

1. Examination - final written test and oral examination. To obtain the evaluation A (excellent), a student has to obtain at least 90 %, to obtain B 80 %, for the evaluation C at least 70%, for the evaluation D 60 %, for the evaluation E at least 50%. A student who receives less than 50% will obtain the evaluation FX.
2. Preparation of short presentations to the seminar (range 10 slides). According to the agreed timetable about the assessment of approaches in regional development.

Credits will not be awarded to a student who will receive for written test less than 50% points or to a student who will not prepare all the required assignments according to the established timetable or to a student who will miss 2 or more seminars. Condition for participation in the exam is processing of short presentations.

Aims and Objectives: By the end of the course, students will be able to:
Knowledge:
Explain and compare the economic framework of the functioning of theories and concepts of regional development. Can explain individual stages of regional development as well as the differences between the basic approaches in the context of theories of regional development. Clarifies the mechanism of specific theories of regional development is functioning, the principles of their creation and critical look at them in the context of current approaches to regional development.
Skills:
Apply obtained knowledge and principles from the theoretical approaches in regional development for planning development activities in various development documents.
Competences:
Communicate, present and critically evaluate the results of the study of literature and lead expert discussion on the presented results.

Syllabus/Indicative Content:

1. Main economic theories - basic overview.
2. Main stages of regional development and classification of theories of regional development.
3. The theory of localization.
4. The new economic geography and new growth theory.
5. Export base theory, growth pole theory, the theory of cumulative causes.
6. The theory of uneven development, the theory of polarized development.
7. The theory of uneven changes, the theory of mesoeconomy.
8. The theory of production cycles, the theory of profitable cycles, control theories.
9. The theory of territorial division of labour, discussion of locations.
10. Wards theory of production and flexible specialization, the theory of learning regions.
11. Networking and regional "rooting".
12. Regional innovation systems and triple helix.
13. Clusters, global commodity chains and global value chains.

Suggested readings:

BLAŽEK, J., UHLÍR, D.: Teorie regionálního rozvoje. Nástin, kritika, implikace. Praha: Karolinum, ISBN 978-80-246-4566-7, 362 s., 2021. KLAMÁR, R., ROSIČ, M., MADZIKOVÁ, A., KROKUSOVÁ, J., PASTERNÁK, T., KOZOŇ, J.: Regionálny rozvoj - faktory, disparity a cezhraničná spolupráca. Prešov: Prešovská univerzita, 318 s., ISBN 978-80-555-2326-2, 2019. MAIER, G., TÖDTLING, F.: Regionálna a urbanistická ekonomika – Regionálny rozvoj a regionálna politika.. Bratislava: Elita, ISBN 80-8044-049-2, 314 s., 1998. MATLOVIČ, R., MATLOVIČOVÁ, K.: Geografické myslenie. Prešov: Prešovská univerzita, ISBN 978-80-555-1416-1, 321 s., 2015. MICHAELI, E., MATLOVIČ, R., IŠTOK, R., KLAMÁR, R., HOFIERKA, J., MINTÁLOVÁ, T., MITRÍKOVÁ, J.: Regionálny rozvoj pre geografov. Vydavateľstvo Prešovskej univerzity, Prešov, 717 s., 2010. RUPEL, P., SLACH, O., KOUTSKÝ, J.: Měkké faktory regionálního rozvoje. Ostrava: Ostravská univerzita, 186 s., 2008. RUSNÁK, J., KOREC, P.: Teórie regionálneho rozvoja a výskum regiónov. Bratislava: Univerzita Komenského, ISBN 978-80-223-5059-4, s. 211, 2020.

Language of Instruction:
Slovak language

Other course information: The course is taught only in winter term

Grading history
The total number of assessed students:

A	B	C	D	E	FX

Lecturer/Instructor: doc. RNDr. Radoslav Klamár, PhD., Mgr. Miloslav Michalko, PhD.

Last update: 31.10.2024

Approved by: prof. Ing. Jozef Vilček, PhD.

University Name: University of Presov in Presov

Faculty Name: Faculty of Humanities and Natural Sciences

Course code: 2GAG/MKODP/24	**Course title:** Defense of the diploma thesis with a debate

Type, load and method of training activities:
- Final thesis defense
- Colloquial discourse

Number of credits: 20

Recommended term of study: 4th term

Degree of study: 2nd degree in the study programme: Geography and Land Management

Prerequisites: Master Thesis Seminar 1, Master Thesis Seminar 2

Conditions for course completion:

- In drawing up the thesis, student follows the instructions of his supervisor and Directive formalities of theses, their bibliographic registration, control of originality, storage and disclosure issued by the University of Presov. The scope of work may determine the training Department, recommended range is without attachments (from the beginning to the conclusion inclusive) from 50 up to 70 pages (90,000 to 126,000 characters). Work structure and format of presentation of the final thesis is determined by consultation with the supervisor, by Directive formalities of theses.
- The final variant of the thesis bound in hardcover and student shall submit it to the Department, which announced the topic of his final thesis. The deadline for submitting the diploma thesis is given in the schedule of the current academic year.
- Diploma thesis shall be submitted in two printed copies, the electronic version, which must be identical to the paper version inserted into the student registration system theses in PDF format, no later than seven days from the submission of the printed version. The central repository of theses are assessed the originality of work. The outcome of originality made a report on the originality of the final thesis. Control originality is a necessary condition for defence. Based on the outcome of overlapping thesis with other final theses supervisor decides whether the work can be the subject of defence.
- Part of the submitting the final thesis is conclusion of a license agreement on the use of digital copies of works between the author and the Slovak Republic on behalf of the University. After inserting work into ECL PU author immediately submit a license agreement to a training centre signed by him within 30 days of submitting thesis to CRTD which must be signed by the authorized representative of the University (senior employee of the training centre).
- Diploma thesis is assessed by the supervisor of the work and the opponent who develop opinions according to established criteria.

Commission for state final examinations in private session will assess the process of the defence and decide on classification. When classifying comprehensively assess the quality of thesis and its defence, taking into account the opinions and conduct of the defence and evaluates one common grade. The resulting of ranking may be the same as in opinions, but can be better or worse, depending on the course of the defence. Decision of the result of the defence is presented publicly by chairman of commission along with the results of appropriate state examination.

Educational Outcomes:

Graduate´s profile - master degree in study programme of Geography and Land Management

Knowledge:

The graduate has a profound understanding of the components of the physical and human geographic subsystems of the landscape and their interrelationships. They are familiar with and understand the fundamental theoretical concepts of geography. They possess in-depth knowledge of the patterns of spatial differentiation of the landscape sphere, of horizontal and vertical relationships within geographic complexes of various dimensions. Furthermore, they are acquainted with and understand the methods and procedures for analyzing the development, structure, and processes in geographic complexes at various taxonomic (scale) levels along the local-global continuum. They have advanced knowledge in the field of land planning and regional development, understanding the practical implications and relationships with related disciplines.

Skills:

The graduate is able to actively acquire geographic information, integrate it, and utilize it to solve academic problems and practical tasks. They can creatively and originally solve practical problems in the field using geographic, geoinformatic (GIS), and statistical methods and techniques of office and field research, while being able to assess the suitability and appropriateness of their use. They can use ICT to visualize geographic knowledge in graphic and cartographic form and can use GIS as an analytical tool in spatial analyses. They are able to integrate natural and human resources into the development of creative and innovative solutions to spatial problems. They

can synthesize the processes of land management and landscape formation at the local, regional, and national levels and incorporate research findings into broader and international contexts.
Competencies:
The graduate is able to independently solve professional tasks, coordinate the activities of a team, and take responsibility for them. They can identify and synthesize the ethical, social, and economic implications of the problems being addressed. They can actively expand their knowledge and are able to present it competently in both Slovak and English.

Course Syllabus

defence of the diploma thesis is steady process:

1. Chairman of the Commission presents the candidate and the thesis topic.
2. Student in time of maximum range 10 minutes presents a substantial part of the thesis and highlight its own benefit; student prepares the presentation of results in advance in electronic form (PowerPoint, SmartNotebook , MultimediaBuilder...).
3. The Chairman of the Commission invites the supervisor and opponent to present the reports (in the case of absence of reviewers Chairman of the Commission designates a member of the Commission, which delivers the judgment).
4. The candidate answers the questions and responds to the comments of reviewers (this part can also be prepared in advance in an electronic presentation).
5. Chairman of the Commission appeals the supervisor and opponent to comment on the applicant's answers.
6. Chairman opens the general debate on final thesis, which shall be open to other members, and public; ongoing debate student is answering questions or responding to comments of discussants from the field of content of the study subject geography and country management.
7. After the debate, Chairman terminates the defence and subsequently the committee evaluates the final thesis in the non-public part of the meeting.

- To the defence may be adopted also diploma thesis with one's assessment with the assessment of "failed" (4, FX).

The diploma thesis is available for the Commission during the defence. The presentation should contain the following points:

1. Brief rationale reasons for selection of the theme, its topical and practical benefits.
2. The explanation of objectives, hypotheses and methods used in the processing of the thesis.
3. The main substantive issues of work, suitably supplemented by the graphic and cartographic outputs.

The conclusions and practical recommendations that the author of the thesis concluded

<u>The Commission in assessing the defence takes into account:</u>

- Proper control of technical terminology
- The logical structure of the presentation
- Compliance with the time limit
- Use of resources clarity
- Use of capital goods rhetoric
- Clarity of presentation
- Conciseness of presentation
- More engaging presentations
- The reliability of the results communicated
- The decisiveness of argument

<u>Documents and forms that student should have available within the defence of the diploma thesis</u>:

- Review of the thesis supervisor
- Review of the thesis opponent
- 2 copies of printed and signed license agreement
- Own copy of the diploma thesis

Recommended literary resources:

GAVORA, P.: Úvod do pedagogického výskumu. Bratislava: Univerzita Komenského, 1999. ISBN 80-223-1342-4. GONDA, V.: Ako napísať a úspešne obhájiť diplomovú prácu. Bratislava: Iura Edition, spol.s.r.o. ISBN 978-80-8078-472-0. KATUŠČÁK, D.: Ako písať vysokoškolské a kvalifikačné práce. Ako písať seminárne práce, ročníkové práce, práce ŠVOČ, diplomové práce, záverečné a atestačné práce a dizertácie. Bratislava: Stimul, 1998.ISBN 80-85697-57-2. ŠVEC, Š. a kol.: Metodológia vied o výchove. Bratislava: IRIS, 1998. ISBN 80-88778-73-5. VIŠŇOVSKÝ, Ľ., ZOLYOMIOVÁ, P., BRINCKOVÁ, J.: Metodika diplomovej práce. 2007. ISBN 978-80-8083-374-9. Smernica o náležitostiach záverečných prác, ich bibliografickej registrácii, kontrole originality,

uchovávaní a sprístupňovaní.[online]. Prešov: PU. [cit.26.3.2014]. Dostupné z: http://www.pulib.sk/web/data/pulib/subory/stranka/ezp-smernica-2019.pdf

Required language skills:
Slovak language

Notes:

Course assessment:
Total number of assessed students: -

A	B	C	D	E	FX
-	-	-	-	-	-

Lecturer: prof. Ing. Jozef Vilček, PhD.

Date of the latest revision: 31.10.2024

Approved by: prof. Ing. Jozef Vilček, PhD.

University Name: University of Prešov in Prešov

Faculty Name: Faculty of Humanities and Natural Sciences

Course code: 2GAG/MKDAP/24	**Course title:** Demographic Analyses and Prognoses

Type, load and method of training activities:
Total number of hours: 150 hours
Number of contact hours/lessons: 40 hours/lessons

- Lecture: 2 lessons per week = 20 lessons
- Seminar: 2 lessons per week = 20 lessons

Individual preparation of presentations and questions on seminars: 50 hours
Self-study and preparation for the exam: 60 hours
Method: combined

Number of Credits: 5

Recommended term of study: 2nd term

Degree of study: 2nd degree in the study programme Geography and Land Management

Prerequisites: -

Conditions for course completion:

1. Elaboration of seminar work including demographic analysis and synthesis of a model area. To obtain final A (excellent) a student has to get at least 90 % out of 100; to obtain a grade of B (80 %), C at least (70 %), D (60 %), E (50 %). The student who receives less than 50 % will be assessed of degree FX.
2. The preparing of presentation at the seminar (each student prepares for semester 1 PowerPoint presentation (range min. 12 slides) according to the agreed timetable. The presentation will be focused on current demographic issues.
3. Exam - Final written test: To obtain a grade of A (excellent), student must obtain at least 90%, to obtain the grade of B 80%, a grade of C at least 70%, a grade of D at least 60%, and a grade of E 50%. A student who receives less than 50% will be assessed FX.

Credits will not be awarded to a student who will not have prepared the seminar thesis/work on time, or to a student whose presentation will be rated FX or to a student who will not have prepared his seminar work and presentation on time, or to a student who will not be active during 3 and more seminars . The active participation means the elaboration of portfolio and joining discussions (in the form of question, comment, critical remark). To participate in the final exam it is inevitable to fulfill the conditions under 1 and 2. Double unexcused absence from seminars is also the reason for the overall assessment of FX.
Final assessment of the course includes the written the fulfillment of the conditions under points 1 and 2 (elaboration of seminar work and presentation) and also successful execution of the final written test.

Education outcomes: By the end of the course student will be able:
Knowledge:
The student is able to define and interpret knowledge of basic theoretical concepts in demography and interpret individual demographic and geodemographic phenomena as well as causality between individual demographic data and indicators in connection with general, specific and standardized measures. It distinguishes the basic attributes, spatial aspects and temporal differentiation of natural population movement, spatial movement with regard to internal migration, migratory ties and employment, and interprets the interrelationships between the mentioned partial components of the total population movement. Describes and classifies systematic knowledge of the spatial differentiation of the population according to structural features such as age, gender, nationality, religion and education. Synthesizes knowledge about partial indicators of quality of life and its dimensions. Understands population forecasts of population development based on initial assumptions of fertility, mortality and migration forecasts and demonstrates their verification on specific examples.
Skills:
It actively searches for statistical data from individual sources. It applies basic quantitative and qualitative methods and procedures in the processing of obtained statistical data. Independently interprets information from the literature and other professional sources related to the area of demographic analysis of the region and methods of demographic research.
Competences:
He applies the acquired knowledge and scientific procedures in participating in the preparation of demographic analyzes and forecasts of the selected region for the needs of state, public administration and business entities.

Course Syllabus:
Outline of lectures:

1. Object and subject of demography. Demography as a scientific discipline. Demography and its relationship to other disciplines. Demography data and indicators.

2. The relevance of time in demographic analysis. Demographic network (intersection of facts and trends). Fundamental approaches in demographic analysis.
3. Death and mortality. Primary indicators of mortality. Male mortality. Child mortality in the first year of life (infant mortality). Basic characteristics of infant mortality by age and gender. Mortality unborn (prenatal mortality).
4. Birth, birth rate and fertility. Basic, specific indicators of fertility.
5. Abortion. Indicators of abortion. Specific and differential abortion rates.
6. Marriage and nuptiality of population. Basic, specific and differential indicators of nuptality.
7. Divorce. Basic and specific indicators of divorce. Reduce rates of divorce.
8. The overall characteristics of natural reproduction. Simple characteristics of the natural reproduction (gross and net reproduction rate).
9. Demographic analysis and regionalization of Slovakia. Indicators and dimensions of quality of life.
10. Categories of demographic projections.
11. Mathematical models of population growth.
12. Population projections and the input assumptions – fertility, mortality and migration.
13. The expected scenarios of population development – growth, composition and economic burden of population.

Recommended literary resources:

BAŠOVSKÝ,O., MLÁDEK,J: Geografia obyvateľstva a sídiel. Skriptá. PF UK Bratislava, 1985. KALIBOVÁ, K.: Úvod do demografie. Učební texty Univerzity Karlovy v Praze. Karolinum, Praha, 2005, 52 s., ISBN 80-246-0222-9. KLUFOVÁ, R. a POLÁKOVÁ R., 2010. Demografické metody a analýzy: demografie české a slovenské populace. Bratislava: Wolters Kluwer. 978-80-7357-546-5. KROKUSOVÁ, J. – JEVIČOVÁ, S. 2019. Priestorová analýza demografického správania obyvateľov Európskej únie na príklade kohabitácií. In: Mladá veda-Young Science, Roč. 7, č. 1, s. 11-24, ISSN 1339-3189, (online), Dostupné na: http://www.mladaveda.sk/casopisy/2019/01/01_2019_02.pdf. MATLOVIČ, R.: Geografia obyvateľstva Slovenska so zreteľom na rómsku minoritu. FHPV PU Prešov, 2005, 332 s. MLÁDEK, J. a kol.: Demogeografia Slovenska. UK Bratislava, 1998. MLÁDEK, J. a kol., 2006. Demografická analýza Slovenska. Bratislava: Vydavateľstvo UK. ISBN 80- 223- 2191- 5. MAIK,W.: Podstawy geografii miast. UMK Toruň, 1992. HOLZER, J..Z.: Demografia. PWE Warszawa, 2003, 364 s. MATULNÍK, J.: Pokles pôrodnosti na Slovensku. Sociologická perspektíva. FH TU Trnava, 1998, 161 s. MLÁDEK, J.,: Základy geografie obyvateľstva. SPN Bratislava, 1992. PAVLÍK, Z., RYCHTAŘÍKOVÁ, J., ŠUBRTOVÁ, A.: Základy demografie. Academia Praha, 1986. VAŇO, B.: Obyvateľstvo Slovenska 1945-2000. Infostat, Výskumné demografické centrum, Bratislava, 2001, 74 s.

Required language skills:
Slovak language

Notes: The course is taught only in summer term

Course assessment:
The total number of assessed students:

A	B	C	D	E	FX
-	-	-	-	-	-

Lecturer: RNDr. Juliana Krokusová, PhD.

Date of latest revision: 31.10.2024

Approved by: prof. Ing. Jozef Vilček, PhD.

COURSE DESCRIPTION

University: *University of Presov*

Faculty/university workplace: *Faculty of Humanities and Natural Sciences*

Code: *9UJK/ OAGJ1/24*	**Course title:** English language for specific purposes 1

Type, scope and method of educational activity:
26 lessons / semester
Combined method

Number of credits:
3

Recommended semester:
1. semester

Study grade: *2.*

Prerequisites:
none

Conditions for passing the course:
Continuous evaluation:
The final evaluation of the subject is based on the continuous assessment "PH".

Final evaluation:
Students write a final test from the studied materials. The student must gain at least 50.00 % to pass the course. An overall assessment of the student is based on oral presentation on a chosen topic, essays submitted during the semester and on the calculation of the percentage obtained in the test:
A 100,00 – 90,00 %
B 89,99 – 80,00 %
C 79,99 – 70,00 %
D 69,99 – 60,00 %
E 59,99 – 50,00 %
FX 49,99 and less %

student workload is 90 h = 19,5 h/70,5 h

Learning outcomes:
The course is focused on improving and developing/extending communication skills and understanding language structures of English. Students are provided training in the use of English language vocabulary and grammar structures and in the main communication skills (speaking, listening, reading, writing) specifically tailored to Geography and Applied Geoinformatics students. Students are expected to be able to use language accurately and to sustain intermediate level of general and scientific conversation and writing in English.
Learning outcomes:
The student will be competent to:
- use words, word-phrases and required sentence models,
- communicate in situations requiring information exchange,
- communicate and make discussion on topics included in syllabus in oral and written forms,
- use vocabulary to express one´s opinion, attitude and description of processes, activities and events,
- work with and understand audio recordings and written texts and write summary of audio and written texts independently,
- make oral and written texts containing and using required grammar structures in general and scientific language,
-search for information in printed general and scientific texts,
- comprehend the meaning of some unknown words from the context of a scientific text and the complex scientific text – reading comprehension

Course content:

The content of the course is based on the principles of the communicative approach and activity-based teaching and learning. The course structure comprises the following specified topics:
1. Introduction to language studies. Revision of obtained knowledge. Knowledge quizes.
2. NATURAL RESOURCES

Terminology relevant to the topic. Lexical activities.
Conversation: Natural resources in the world/Slovakia and their use/overexploitation. Reasons and consequences. Future of natural resources on the planet/in Slovakia. Renewable/non-renewable resources.
3. SECONDARY ECONOMIC ACTIVITY
Terminology relevant to the topic. Lexical activities.
Conversation: The structure of industry - light and heavy industry in the world/Slovakia and differences between industries. Manufacturing as a system. Future of industry.
4. TERTIARY ECONOMIC ACTIVITY
Terminology relevant to the topic. Lexical activities.
Conversation: Components of TEA.Work power in v TEA. Tourism and its development. Future of tourism. Tourism in Slovakia.
5. WEALTH, AID AND DEVELOPMENT
Terminology relevant to the topic. Lexical activities.
Conversation: Economic development of countries - developed and developing countries map of the world). Unfair trading.
International aid - sources of aid, types of aid, providers and receivers of aid.
6. Revision of the topics.

Recommended literature:

Recommended books and references:

KELLY, Keith.: Geography. Macmillan Vocabulary Practice Service. Macmillan, ISBN 978-0-230-71976-7. 2009.
MURPHY, Raymond: English Grammar in Use. Cambridge University Press, ISBN 0-521-53762-2. 2004.
OXFORD Advanced Learner´s Dictionary. 8th edition, Oxford, ISBN 978-0-19-479900-3. 2010.
FRONEK, Josef – MOKRÁŇ, Pavel: Anglicko-slovenský slovník. Nová práca, ISBN 80-88929-80-6, 2006.
POLLÁKOVÁ, Nadežda – CIMERMANOVÁ, Ivana: Slovensko-anglický, Anglicko-slovenský slovník pre verejnú správu. Impreso. Prešov, ISBN 80-8068-135X.

Language which is necessary to complete the course:

Slovak and english

Notes:

Course evaluation

Total number of students evaluated:

A	B	C	D	E	FX
a	b	c	d	e	f

Lecturers: *PaedDr. Erika Kofritová, PhD., Mgr. Barbora Laputková, PhD.*

Date of last change: *31.10.2024*

Approved by: *Mgr. Lenka Gogová, PhD.*

COURSE DESCRIPTION

University: *University of Presov*	
Faculty/university workplace: *Faculty of Humanities and Natural Sciences*	
Code: *9UJK/ OAGJ2/22*	**Course title:** English language for specific purposes 2
Type, scope and method of educational activity: 26 lessons / semester Combined method	
Number of credits: *3*	
Recommended semester: *2 semester*	
Study grade: *2.*	
Prerequisites: *none*	
Conditions for passing the course: *Continuous evaluation:* The final evaluation of the subject is based on the continuous assessment "PH". *Final evaluation:* Students write a final test from the studied materials. The student must gain at least 50.00 % to pass the course. An overall assessment of the student is based on oral presentation on a chosen topic, essays submitted during the semester and on the calculation of the percentage obtained in the test: A 100,00 – 90,00 % B 89,99 – 80,00 % C 79,99 – 70,00 % D 69,99 – 60,00 % E 59,99 – 50,00 % FX 49,99 and less % student workload is 90 h = 19,5 h/70,5 h	
Learning outcomes: The course provides an opportunity to develop communication skills and an understanding of the fundamental structures of English. It is taught in groups, with full scope for student participation. In each class, English and Slovak is the mediums of teaching. At the end of the course, students are expected to be able to use language accurately and to sustain general and scientific conversation in English. The objective of the course is to consolidate and extend knowledge of English; to provide training in the use of English and in the main communication skills (speaking, listening, reading, writing) specifically tailored to Geography and Applied Geoinformatics as study programme. Learning outcomes: The student is competent to: - use words, word-phrases and more complex sentence models, - communicate in situations requiring scientific information exchange, - communicate on scientific topics set in syllabus, - use vocabulary and other language means to describe a scientific problem, - use vocabulary to express his/her opinion and attitude to a scientific problem, - use language means to get and provide various information, - make the independent interpretation, - search for information in printed scientific texts and process them, - comprehend the meaning of unknown words from the context of a scientific text – reading comprehension.	

Course content:

The content of the course is based on the principles of the communicative approach and activity-based teaching and learning. The course structure comprises the following specified topics:
Introduction to language. Revision of knowledge. Knowledge quiz.
UNIT 17/18 Weather and climate
Key vocabulary. Vocabulary development: words and word phrases activities related to the topic. Language activities.

2. INDIVIDUAL SELECTED MATERIALS

UNIT 1 The Earth
Key vocabulary. Vocabulary development: words and word phrases activities related to the topic. Language activities.

UNIT 2 Continents, countries, nationalities and languages
Key vocabulary. Vocabulary development: words and word phrases activities related to the topic. Language activities.

UNIT 3 Europe
Key vocabulary. Vocabulary development: words and word phrases activities related to the topic. Language activities.

UNIT 4 America
Key vocabulary. Vocabulary development: words and word phrases activities related to the topic. Language activities.

UNIT 5 Africa
Key vocabulary. Vocabulary development: words and word phrases activities related to the topic. Language activities.

UNIT 6 Asia
Key vocabulary. Vocabulary development: words and word phrases activities related to the topic. Language activities.

UNIT 7 Geography of Slovakia
Key vocabulary. Vocabulary development: words and word phrases activities related to the topic. Language activities.

Review of topics

Recommended literature:
KELLY, Keith.: Geography. Macmillan Vocabulary Practice Service. Macmillan, ISBN 978-0-230-71976-7. 2009.
MURPHY, Raymond: English Grammar in Use. Cambridge University Press, ISBN 0-521-53762-2. 2004.
OXFORD Advanced Learner´s Dictionary. 8th edition, Oxford, ISBN 978-0-19-479900-3. 2010.
FRONEK, Josef – MOKRÁŇ, Pavel: Anglicko-slovenský slovník. Nová práca, ISBN 80-88929-80-6, 2006.
POLLÁKOVÁ, Nadežda – CIMERMANOVÁ, Ivana: SLOVENSKO–ANGLICKÝ, ANGLICKO – SLOVENSKÝ SLOVNÍK PRE VEREJNÚ SPRÁVU. Impreso. Prešov, ISBN 80-8068-135X.
Internet resources.

Language which is necessary to complete the course:
Slovak and english

Notes:

Course evaluation
Total number of students evaluated:

A	B	C	D	E	FX
a	b	c	d	e	f

Lecturers: *PaedDr. Erika Kofritová, PhD., Mgr. Barbora Laputková, PhD.*

Date of last change: *31.10.2024*

Approved by: *Mgr. Lenka Gogová, PhD.*

COURSE DESCRIPTION

University: *University of Presov*	
Faculty/university workplace: *Faculty of Humanities and Natural Sciences*	
Code: *9UJK/ OAGJ3/24*	**Course title:** English language for specific purposes 3
Type, scope and method of educational activity: 26 lessons / semester Combined method	
Number of credits: *3*	
Recommended semester: *2 semester*	
Study grade: *2.*	
Prerequisites: *none*	
Conditions for passing the course: *Continuous evaluation:* The final evaluation of the subject is based on the continuous assessment "PH". *Final evaluation:* Students write a final test from the studied materials. The student must gain at least 50.00 % to pass the course. An overall assessment of the student is based on oral presentation on a chosen topic, essays submitted during the semester and on the calculation of the percentage obtained in the test: A 100,00 – 90,00 % B 89,99 – 80,00 % C 79,99 – 70,00 % D 69,99 – 60,00 % E 59,99 – 50,00 % FX 49,99 and less % student workload is 90 h = 19,5 h/70,5 h	
Learning outcomes: The course is focused on improving and developing/extending communication skills and understanding language structures of English. Students are provided training in the use of English language vocabulary and grammar structures and in the main communication skills (speaking, listening, reading, writing) specifically tailored to Geography and Applied Geoinformatics students. Students are expected to be able to use language accurately and to sustain advanced level of general and scientific conversation and writing in English. Learning outcomes: The student is competent to: - use words, word-phrases and more complex sentence models, - communicate in situations requiring scientific information exchange, - communicate on scientific topics set in syllabus, - use vocabulary and other language means to describe a scientific problem, - use vocabulary to express his/her opinion and attitude to a scientific problem, - use language means to get and provide various information - search for information in printed scientific texts and process them, - comprehend the meaning of unknown words from the context of a scientific text – reading comprehension.	

Course content:

1. Introduction into language. Revision of knowledge. Geograpical quizes.
2. SCIENCE
Terminology related to the topics. Lexical activities.
Conversation topics: Sience at present. Conditions and tasks. Trends.
The major scientific discoveries and inventions in the past century (in the world/Slovakia). The most famous scientists and their scientific contribution (in the world/Slovakia).
3. GEOGRAPHY OF SLOVAKIA
Terminology related to the topic.
Conversation topics: Geography of individual Slovak regions.
Regional policy and regional development. Similarities and differences in the regions. Comparison.
The most urgent economic/social/other problems in the regions of Slovakia.
Cross-border cooperation between Slovakia and neighbouring countries. Advantages and disadvantages.
Cultural heritage and its preservation. The most valuable regional monuments in Slovakia from the point of view of geography and culture.
4. GEOGRAPHY OF EUROPE
Terminology related to the topic.
Conversation topics: Geography of Europe. Specific elements.
The most important geographical regions in Europe.
5. GEOGRAPHY OF AMERICA
Terminology related to the topics.
Conversation topics: Geographical regions in America - division. Specific elements.
The most important regions in the American continent.
6. GEOGRAPHY OF ASIA
Terminology related to the topics.
Conversation topics: Geographical regions of Asia. Specific elements.
The most important regions of the Asian continent.
7. OTHER CONTINENTS OF THE WORLD
Terminology related to the topics.
Conversation topics: Other continents and their specific elements.
The most important regions of these continents.
8. WORK INTERVIEW
Terminology an phraseology related to the topic.
Work interview. How to make it.
9.Revision of the topics. Final assessment of the course.

Recommended literature:

KELLY, Keith.: Geography. Macmillan Vocabulary Practice Service. Macmillan, ISBN 978-0-230-71976-7. 2009.
MURPHY, Raymond: English Grammar in Use. Cambridge University Press, ISBN 0-521-53762-2. 2004.
FRONEK, Josef – MOKRÁŇ, Pavel: Anglicko-slovenský slovník. Nová práca, ISBN 80-88929-80-6, 2006.
OXFORD Advanced Learner´s Dictionary. 8th edition, Oxford, ISBN 978-0-19-479900-3. 2010.
POLLÁKOVÁ, Nadežda – CIMERMANOVÁ, Ivana: Slovensko-anglický, Anglicko-slovenský slovník pre verejnú správu. Impreso. Prešov, ISBN 80-8068-135X.
Selected texts and language activities.
Internet resources.

Language which is necessary to complete the course:
Slovak and english

Notes:

Course evaluation
Total number of students evaluated:

A	B	C	D	E	FX
a	b	c	d	e	f

Lecturers: *PaedDr. Erika Kofritová, PhD., Mgr. Barbora Laputková, PhD.*

Date of last change: *31.10.2024*

Approved by: *Mgr. Lenka Gogová, PhD.*

University Name: University of Prešov

Faculty: Faculty of Humanities and Natural Sciences

Course code: 2GAG/MKEXZ/24	**Course Title:** Excursion abroad

Type, load and method of training activities:
Total number of hours: 120 hours
Number of hours of contact lessons: 110 hours
Self-study and preparation for the graduation of a study: 10 hours
Method: combined

Number of Credits: 4 * 1 credit = 30 hours

Recommended term of study : 2nd term

Degree of study: 2nd degree in the study programme: Geography and Land Management

Prerequisites: -

Conditions for course completion:
Student completes the subject, as will attend the 10-day foreign excursion to selected European or world region will be active during the presentation of the predetermined topics related to the visited destinations in situ and verbally defend ready excursion itinerary after returning from the expedition.
Credits will not be awarded to a student who is not involved in field trips or a foreign student who has failed to develop a detailed itinerary according to the time schedule and location, or a student who does not advocate this itinerary on verbal evaluation after returning from the expedition, or seriously infringe the rules of implementation of foreign excursions, which are lead by regulation department of Geography and Applied Geoinformatics - "Guidelines for landscaping practices".

Learning outcomes: *student knows:*
Knowledge:
- sufficiently define the terminology of logistics preparation of a foreign excursion;
- clarify the context and relationships of the regional specificities of the European and world regions visited;
-explain and consolidate the theoretically acquired knowledge in the teaching process with real knowledge in the region in question;
- comprehensively think and orientate in non-Slovak regions on the basis of theoretical and practical training.
Skills:
- apply the acquired knowledge and procedures in planning, creating and coordinating the preparation of a foreign excursion;
- independently obtain geographical information from literature and other sources and propose appropriate methods for processing the documents needed to organize a foreign excursion;
- to design suitable methods of cartographic visualization in the processing of outputs after completing a foreign excursion.
Competencies:
- to solve problems connected with obtaining a suitable database and their processing;
- use tools and methods individually or in teams to explore individual foreign destinations;
- professionally and clearly formulate knowledge about the applied procedures and present the achieved results in relation to the issues addressed.

Course Syllabus:
The excursion abroad is realized in the form of a student expedition in a pre-selected European or world region. Transport is carried out by bus, in the case of a more distant destination, the appropriate type of means of transport (aircraft, train) is chosen. Accommodation is realized in accommodation facilities, camps or in the wild in famous places. Catering is done in an individual way. After completing the excursion, students will gain comprehensive knowledge of physical and human geography, cultural and historical geography, as well as the issues of tourism in the region. They will use their knowledge in the further educational process, as well as the experience of staying in a foreign destination.

Recommended bibliography and other sources:
BAAR, V., ŠINDLER, B.: Regionální geografie světadílů a oceánů I. a II. díl, PdF Ostrava, 1989. BATEMAN, G., EGANOVÁ, V.: Encyklopedie Zeměpis světa, Columbus Praha, s.512, 1994. BIČÍK, I. a kol.: Makroregiony světa, Nakladatelství české geografické společnosti, s.r.o. Praha, s. 148, 2011. BOROVSKÝ, J., SMOLKOVÁ, E., NIŇAJOVÁ, I.: Cestovný ruch trendy a perspektívy. Iura Edition, spol. s r.o. Bratislava, s.280, 2008. BRADSHAW, M.,: A world Regional Geography. The New Global Order. WCB McGraw-Hill, Boston, 1997. COLE, J.,: Geography of the World´s Major Regions. New York, 1996. GAJDOŠ, A. a kol.: Regionálna geografia Európy. VEDA Bratislava, s. 592, 2013. JĘDRUSIK, M., MAKOWSKI, J., PLIT, F.: Geografia turystyczna świata.

Nowe trendy.Regiony turystyczne. WUW Warszawa, s. 383, 2010. KOL.: Geografický místopisný slovník. Academia Praha, s. 924, 1993. KOL.: Lexikon Zemí 2003, Fortuna Print Praha, s. 503, 2002. KOPŠO, E.: Geografia cestovného ruchu. SPN Bratislava, s. 328, 1992. KRÁL, V.: Fyzická geografie Evropy. Academia Praha, s. 350, 2001. KUREK, W. a kol.: Regiony turystyczne świata częśść 1. WN PWN Warszawa, s. 329, 2012. KUREK, W. a kol.: Regiony turystyczne świata częśść 2. WN PWN Warszawa, s.344, 2012. LIŠČÁK, V.: Státy a území světa. Libri Praha, s.896, 2009. MAKOWSKI, J.: Geografia regionalna świata. WN PWN Warszawa, s. 399, 2013. MAZŮREK, J.: Európske štúdie. Wist Martin, s. 623, 2003. OTRUBOVÁ E.: Humánna geografia II. Geografia zahraničného obchodu. Geografia cestovného ruchu. Prírodovedecká fakulta, Ústav geografie UPJŠ Košice, s.108, 2003. TOUŠEK, V., KUNC, J., VYSTOUPIL, J. a kol.: Ekonomická a sociální geografie. Vydavatelství a nakladatelství Aleš Čeněk, s.r.o. Plzeň, s. 411, 2008. VAŠKO, M.: Cestovní ruch a regionální rozvoj. VŠE, Praha, 2002. ZUBRICZKÝ, G.: Geografia štátov sveta. Mapa Slovakia Bratislava, s. 254, 2009.
Tourist guides - Lonely Planet, Rough Guides, Nelles Guide, Olympia and other
Magazines – GEO, National Geographic, Země světa, Lidé a země, Geografické rozhledy, Trend and other

Required language skills:
Slovak language

Notes: course is running during summer semester only

Course assessment:

A	B	C	D	E	FX
-	-	-	-	-	-

Lecturer: Mgr. Anton Fogaš, PhD.

Date of latest revision: 31.10.2024

Approved by: prof. Ing. Jozef Vilček, PhD.

University Name: University of Presov in Presov	
Faculty Name: Faculty of Humanities and Natural Sciences	
Course code: 2GAG/MKTPS/24	**Course title:** Field Practice in Regional Geography of Slovakia
Type, load and method of training activities: Total number of lessons: 90 lessons Number of contact lessons: 5 days/ 40 lessons on field Individual preparation: 50 lessons Method: combined	
Number of Credits: 3	
Recommended term of study: 2rd term	
Degree of study: 2st degree in the study programme: Geography and Land Management	
Prerequisites:	
Conditions for course completion: The student completes the course if he participates in a 5-day field practice with a focus on the regional geography of the Slovak Republic, will actively participate in the presentation of a pre-assigned topic related to the visited destination in situ and will verbally defend the prepared excursion itinerary, which will include a site map and notes, after returning from the field practice. Credits will not be awarded to a student who does not participate in the field practice or to a student who does not develop a detailed itinerary according to the time and location schedule, or to a student who does not defend this itinerary on a verbal evaluation after returning from the field practice, or to a student who does not process and present the assigned topic at a specific location, or seriously violates the rules of implementation of the field practice, which are the regulation of the management of the Department of Geography - "Instructions for field practice".	
Educational Outcomes: By the end of the course, students will be able to: *Knowledge:* - is able to process and use knowledge in the logistical preparation of a field practitioner; - is able to describe and interpret the individual regional specifics of the visited Slovak regions; - will be able to analyse, organise and explain the theoretically acquired knowledge in the teaching process with real knowledge in the region in question; - will have the ability to orient themselves in Slovak regions on the basis of theoretical and practical preparation; - will have comprehensive knowledge of physical and human geography, cultural and historical geography, as well as tourism issues of the region in question - will be able to define and analyze processes taking place in the population, settlements, agriculture, industry, transport and tourism in a spatial geographical context and practically identify and verify this knowledge in the environment of specific regions of Slovakia; Skills: - apply the acquired knowledge when participating in the preparation of compatible excursions around Slovakia; - apply theoretical knowledge in a specific region of the Slovak Republic, for example in the creation of spatial planning documents	
Course Syllabus: The field practicum is carried out in pre-selected regions and localities, especially in central and western Slovakia. Transport is carried out by excursion bus. The main content of the field practitioner is to get acquainted with physico-geographical and human-geographical phenomena in Slovakia and their spatial distribution in the real environment of the Slovak Republic and its diverse regions. During the excursion, typical settlement formations will be visited, areas with atypical ethnic composition, an industrial plant, an agricultural enterprise with an appropriate interpretation, specific, or rare and attractive, natural forms and localities will be visited. Students will prepare a final report.	
Recommended literary resources: MATLOVIČ, R., KANDRÁČOVÁ, V., MICHAELI, E., 1998, Trasy za poznaním Slovenska. ATA, Prešov, 500 s. príslušná literatúra z jednotlivých odborov fyzickej a humánnej geografie v závislosti od práce v teréne Knižné edície vydavateľstva Dajama – S batohom po Slovensku, Prírodné krásy Slovenska, Kultúrne krásy Slovenska	
Required language skills: Slovak language	
Notes: The course is taught only in summer term	
Course assessment: The total number of assessed students:	

A	B	C	D	E	FX
-	-	-	-	-	-

Lecturer: prof. RNDr. Róbert Ištok, PhD., RNDr. Martin Angelovič, PhD.

Date of the latest revision: 31.10.2024

Approved by: prof. Ing. Jozef Vilček, PhD.

University Name: University of Presov in Presov

Faculty Name: Faculty of Humanities and Natural Sciences

Course code: 2GAG/MKGMI/24	**Course title:** Geography and management of innovations

Type, load and method of training activities:

Total number of lessons: 120 lessons
Number of contact lessons: 20 lessons

- Lecture: 1 lesson per week = 10 lessons
- Seminar: 1 lesson per week = 10 lessons

Individual preparation and preparation of assignments for the seminar: 40 lessons
Self-study and preparation for the test: 60 lessons
Method: combined

Number of Credits: 4

Recommended term of study: 3rd term

Degree of study: 2nd degree in the study programme: Geography and Land Management

Prerequisites: -

Conditions for course completion:

1. Written test: To obtain the evaluation A (excellent), a student has to obtain at least 90%, to obtain B 80%, for the evaluation C at least 70%, for the evaluation D 60%, for the evaluation E at least 50%. A student who receives less than 50% will obtain the evaluation FX.
2. Preparation of presentation to the seminar (range 10 min) according to the agreed schedule about the selected country/region and its innovative approaches.

Credits will not be awarded to a student who will receive for written test less than 50% points or to a student who will not prepare presentation according to the established timetable or to a student who will miss 2 or more seminars.

Educational Outcomes: By the end of the course, students will be able to:
Knowledge:
Use the theoretical and methodological apparatus used in the field of management of innovations. Will understand generalized theoretical knowledge which was presented in lectures based on the analysis of practical examples (case studies of existing technopolies in the world) as well as the issue of geographical theory of the formation and diffusion of innovation, the most common localization factor for the development of new zones of high technologies and their role in regional development.
Skills:
Collect relevant geographical information from the literature. Will be able to independently analyse the spatial organization technopol territory and formation processes of technology parks, incubators and industrial parks in Slovakia. Will be able to obtain and process the data and information necessary for the preparation of development strategies for STP in a specific area. Consequently, he/she will be able to critically assess the opportunities for further development of existing STP.
Competencies:
Assess the potential for application of innovation policy in practice and its benefits. Will be able to independently find and analyse examples of the best practice in the world and to identify the key factors necessary for increasing the competitiveness of regions at different levels through the promotion of science, research, transfer of knowledge within or between the regions, the establishment of innovation networks, and innovation-oriented development policy.

Course Syllabus:

1. Innovation - definition and key attributes of innovation.
2. Innovation, invention, information.
3. Growth of innovations (Innovative spectrum by Valent)
4. Incremental innovations.
5. Disruptive innovations.
6. Variant types of innovations.
7. Christensen's theory of disruptive innovation.
8. Schumpeter's innovation cycle.
9. Types of diffusion – relocation and expansion.
10. Hägerstrand's inductive model of diffusion wave.
11. Regerson's inductive model of innovation diffusion.

12. Diffusion waves in space and time.
13. The types of organisations serving for the transfer of innovations into the practice (spin-off, start-up, business incubator, technological parks, centres of excellence in research and development, technology incubators, technology clusters)

Recommended literary resources:

HAGGETT, P.: Geography, A Globale Synthesis (časť IV, kapitola 16), Prentice Hall, England. 2001. MATLOVIČOVÁ, K., MATLOVIČ, R.: Geografia inovácií a technopolí. Úvod do problematiky. Prešovská univerzita v Prešove, Fakulta humanitných a prírodných vied, prvé vydanie, ISBN 978-80-555-1574-8, 107 s., 2016. TIDD J., BESSANT J., PAVITT K.: Řizení inovací. Computer Press, Brno, 2007. KLASS A KOL.: Technologický a inovačný rozvoj v Slovenskej republike, Ústav slovenskej a svetovej ekonomiky SAV, Bratislava, 2005. TROMMSDORFF V., STEINHOF F.: Marketing inovací, C.H.Beck, Praha, 291 s., 2009.

Required language skills:
Slovak language

Notes: course is running during winter semester only

Course assessment:

A	B	C	D	E	FX

Lecturer: doc. RNDr. Radoslav Klamár, PhD.

Date of the latest revision: 31.10.2024

Approved by: prof. Ing. Jozef Vilček, PhD.

University Name: University of Prešov

Faculty: Faculty of Humanities and Natural Sciences

Course code: 2GAG/MKGSM/24	**Course Title:** Geography global macro-regions

Type, load and method of training activities:
Total number of hours: 150 hours
Number of hours of contact lessons: 30 hours
- Lectures = 20 hours
- Seminars = 10 hours

Preparation of presentations: 40 hours
Preparation for examination: 80 hours
Method: combined

Number of Credits: 5 * 1 credit = 30 hours

Recommended term of study : 3rd term

Degree of study: 2nd degree in the study programme: Geography and Land Management

Prerequisites: -

Conditions for course completion:

1. Interim written test with following assessment (percentage of successfulness): to obtain grade A (excellent) must obtain at least 90%, to obtain grade B 80%, to obtain grade C at least 70%, to obtain grade D 60%, to obtain grade E at least 50%. A student who receives less than 50% will be assessed the degree FX.
2. Examination – closing written test with following assessment:): to obtain grade A (excellent) must obtain at least 90%, to obtain grade B 80%, to obtain grade C at least 70%, to obtain grade D 60%, to obtain grade E at least 50%. A student who receives less than 50% will be assessed the degree FX.
3. Preparation of short presentations at the seminar - each student will prepare a presentation during the semester according to the agreed timetable of the issues selected macro-world.

Credits will not be awarded to a student who from a review written for less than 30% points or a student who received a term paper for evaluation FX or student who has not drawn a mandatory presentation to a timetable or a student who was absent for three or more seminars. Condition for participation in the trial is processing a short presentation and seminar work.
Overall evaluation object is calculated as the arithmetic average of the ratings for a term paper, interim and final written test.

Learning outcomes: *student knows:*
Knowledge:
- define in sufficient depth and cross-sectionally the basic regional geographical terminology concerning the individual macro-regions of the world;
- to clarify the context and relations of historical - political and economic development, demographic structure, settlement systems, as well as the problems currently applied to the model territories of the studied macro - regions of the world;
- explain the phenomena and processes that have a decisive influence on developments in the relevant macro-regions of the world;
- comprehensively think in the relevant historical-geographical, cultural-geographical and political-geographical contexts in the specific studied macro-regions of the world.

Skills:
- apply the procedure according to Hettner's scheme of geographical systematics in planning, creation and coordination of preparation of complex geographical characteristics of selected area;
- independently obtain geographical information from literature and other sources and propose appropriate methods for processing the given data;
- to propose suitable methods of cartographic visualization in the processing of the given assignments.

Competencies:
- to solve problems connected with obtaining a suitable database and their processing;
- use, individually or in teams, tools and methods to examine the individual macro-regions of the world in question;
- professionally and clearly formulate knowledge about the applied procedures and present the achieved results in relation to the issues addressed.

Course Syllabus:

1. Macro-regional differentiation.

2. Southwest Asia.
3. South Asia.
4. Southeast Asia.
5. East Asia.
6. North Eurasia.
7. North America.
8. Latin America.
9. North Africa.
10. Sub - Saharan Africa.
11. Europe.
12. Australia and Oceania.
13. Global issues of world macro-regions.

Recommended bibliography and other sources:

BAAR, V., ŠINDLER, B.: Regionální geografie světadílů a oceánů I. a II. díl, PdF Ostrava, 1989. BAAR, V.: Národy na prahu 21. století. Emancipace nebo nacionalismus? Ostravská univerzita. Nakladatelství Tilia, Ostrava, s. 415, 2002. BATEMAN, G., EGANOVÁ, V.: Encyklopedie Zeměpis světa, Columbus Praha, s.512, 1994. BIČÍK, I. a kol.: Makroregiony světa, Nakladatelství české geografické společnosti, s.r.o. Praha, s. 148, 2011. BRADSHAW, M.,: A world Regional Geography. The New Global Order. WCB McGraw-Hill, Boston, 1997. COLE, J.,: Geography of the World´s Major Regions. New York, 1996. GAJDOŠ, A. a kol.: Regionálna geografia Európy. VEDA Bratislava, s. 592, 2013. KOL.: Geografický místopisný slovník. Academia Praha, s. 924, 1993. KOL.: Lexikon Zemí 2003, Fortuna Print Praha, s. 503, 2002. KRUPA, V., GENZOR, J.: Jazyky sveta v priestore a čase. VEDA Bratislava, s. 356, 1996. KUREK, W. a kol.: Regiony turystyczne świata częśść 1. WN PWN Warszawa s. 329, 2012. KUREK, W. a kol.: Regiony turystyczne świata częśść 2. WN PWN Warszawa, s.344, 2012. LIŠČÁK, V.: Státy a území světa. Libri Praha, s.896, 2009. MAKOWSKI, J.: Geografia regionalna świata. WN PWN Warszawa, s. 399, 2013. ZUBRICZKÝ, G.: Geografia štátov sveta. Mapa Slovakia Bratislava, s. 254, 2009.
Časopisy – GEO, National Geographic, Země světa, Lidé a země, Geografické rozhledy, Trend a iné

Required language skills:
Slovak language

Notes: course is running during winter semester only

Course assessment:

A	B	C	D	E	FX
-	-	-	-	-	-

Lecturer: prof. RNDr. Robert Ištok, PhD., Mgr.Anton Fogaš, PhD.

Date of latest revision: 31.10.2024

Approved by: prof. Ing. Jozef Vilček, PhD.

University Name: University of Presov in Presov

Faculty Name: Faculty of Humanities and Natural Sciences

Code: 2GAG/MKGEI/24	**Title of Course:** Geography of European integration

Type, load and method of training activities:

Total number of lessons: 150 lessons

Number of contact lessons: 30 lessons

- Lecture: 2 lessons per week = 20 lessons
- Seminar: 1 lesson per week = 10 lessons

Individual preparation and preparation of assignments for the seminar: 40 lessons

Self-study and preparation for the exam: 80 lessons

Method: combined

Number of credits: 5

Semester: 3th term

Degree/Level: 2nd degree in the study programme: Geography and Land Management

Prerequisites: -

Grading Policy (Assessment/Evaluation):

1. Interim written test*:* To obtain grade A (excellent) must obtain at least 90%, to obtain grade B 80%, to obtain grade C at least 70%, to obtain grade D 60%, to obtain grade E at least 50%. A student who receives less than 50% will be assessed the degree FX.
2. Exam – final written test: To obtain grade A (excellent) must obtain at least 90%, to obtain grade B 80%, to obtain grade C at least 70%, to obtain grade D 60%, to obtain grade E at least 50%. A student who receives less than 50% will be assessed the degree FX.
3. Preparation for seminar presentations (2 students will prepare power point presentation (min. 8 slides) according to the agreed timetable, on the development and current state of functioning and competences of the EU institutions.

Credits will not be awarded to a student who, from a written review gained less than 50% points or to student who for a short presentation received grade FX, also to a student who did not prepare all mandatory presentation according to the timetable, respectively has not been active on three or more seminars. The activity means the presentation and participation on discussions (comments, critical comment, questions). Condition for participation on exam is processing the output of the point no. 3.

Overall rating of the course is calculated as the arithmetic average of the ratings for the interim and final written test and oral exam.

Aims and Objectives: By the end of the course, students will be able to:

Knowledge:

define in sufficient depth the basic terminology of European integration and the idea of its origin in the historical-geographical and spatial context. Can describe the political-geographic and geopolitical aspects of the beginning of European integration in the years 1945 – 1952 and its development to the present. At the same time, they can explain of the origin, development and current responsibilities of the main institutions of the European Union, taking into account the geopolitical aspect and analyse the position of the EU in the global context, taking into account economic-geographic, political-geographic and geopolitical aspects.

Skills:

apply acquired knowledge in professional practice.

Competences:

individually obtain relevant information for research on development and current state of the European Union.

Syllabus/Indicative Content:

1. Basic terminology and aspects of the European integration in geographic context.
2. Historical-geographic contexts on the idea of the European integration (until the end of the 19th century).
3. Historical-geographic contexts on the idea of the European integration (the period 1900-1945).
4. Political-geographic aspects of European integration after the Second World War.
5. Political-geographic aspects of the development of European integration from 1952 to 1957.
6. Political-geographic aspects of the development of European integration from 1957 to 1973.
7. Political-geographic aspects of the development of European integration from 1973 to 1992.
8. Political-geographic aspects of the development of European integration from 1992 to 2004.
9. Political-geographic aspects of the development of European integration since 2004.
10. Institutions of European integration and their scope – political-geographic aspect (European Commission, European Council).
11. Institutions of European integration and their scope – political-geographic aspect (European Parliament, Economic and Social Committee, Committee of the Regions).
12. Political-geographic and geopolitical aspects of position of the European Union in the global context.

13. Perspectives of development of the EU in terms of deepening integration processes and its enlargement.

Suggested readings:

BLOUET, B. W.: The EU and Neighbors: A Geography of Europe in the Modern World. Wiley, Hoboken 2012. FIALA, P., KUTÍLEK, O., PITROVÁ, M.: Evropská unie. Centrum pro studium demokracie a kultury. Brno 2018. FIALA, P., PITROVÁ, M.: Evropská unie. CDK, Brno 2003. KARLAS, J.: Mezinárodní organizace. Systémy spolupráce mezi státy. Sociologické nakladatelství, Praha 2015. KLAMÁR, R., ROSIČ, M., MADZIKOVÁ, A., KROKUSOVÁ, J., PASTERNÁK, T., KOZOŇ, J.: Regionálny rozvoj - faktory, disparity a cezhraničná spolupráca. Prešov: Prešovská univerzita, 318 s., ISBN 978-80-555-2326-2, 2019. KONIG, P., LACINA, L., PŘENOSIL, J.: Učebnice evropské integrace. Barrister a Principal, Brno 2011. LACINA, L., BLÍŽKOVSKÝ, P., STREJČEK, P.: Učebnice evropské integrace. Barrister a Principal, Praha 2016. LIPKOVÁ. Ľ. A KOL.: Európska únia. Sprint, Bratislava 2011. ROSPUTINSKÝ, P.: Úvod do štúdia medzinárodných organizácií. UMB, Banská Bystrica 2011. RUMPEL, P. a KOL.: Geografické aspekty evropské integrace. OU, Ostrava 2007.
Odborné periodiká a zborníky.

Language of Instruction:
Slovak language

Other course information: The course is taught only in winter term

Grading history
Total number of assessed students:

A	B	C	D	E	FX

Lecturer/Instructor: prof. RNDr. Robert Ištok, PhD., doc. RNDr. R. Klamár, PhD.

Last update: 31.10.2024

Approved by: prof. Ing. Jozef Vilček, PhD.

University Name: University of Presov in Presov

Faculty Name: Faculty of Humanities and Natural Sciences

Course code: 2GAG/MKIMK/24	**Course title:** Integrated landscape management

Type, load and method of training activities:
Total number of lessons: 150 lessons
Number of contact lessons: 30 lessons

- Lecture: 2 lessons per week = 20 lessons
- Seminar: 1 lesson per week = 10 lessons

Individual preparation and preparation of assignments for the seminar: 50 lessons
Self-study and preparation for ongoing evaluation: 70 lessons
Method: combined

Number of Credits: 5

Recommended term of study: 1st term

Degree of study: 2nd degree in the study programme: Geography and Land Management

Prerequisites: -

Conditions for course completion:

1. Continuous written test: Evaluation A (excellency) – student must obtain at least 90%, evaluation B – 80%, evaluation C – 70%, evaluation D – 60%, evaluation E – 50%. If student obtains less than 50% points, he will be evaluated FX degree.
2. Ongoing evaluation – final written test: Evaluation A (excellency) – student must obtain at least 90%, evaluation B – 80%, evaluation C – 70%, evaluation D – 60%, evaluation E – 50%. If student obtains less than 50% points, he will be evaluated FX degree.
3. Preparing of short presentation for seminar (every pair of students prepare 1 ppt presentation with minimally 7 slides) according of agreed date about problems of selected subject.

Student does not acquire credits if he obtains from final written test less than 50% points or from short presentation FX degree. Condition for participation in the graded credit is processing of the outcomes of the 3rd point.
Total course evaluation will be calculated as average of evaluations from short presentation, continuous and final written test.

Educational Outcomes: By the end of the course, students will be able to:
Knowledge:
- know the basic principles and paradigms of integrated landscape research,
- define and interpret the attributes and dimensions of landscape,
- know the geoecological methods of landscape research,
- describe functioning of natural landscape subsystem, processes in landscape and ecosystem services utilization,
- know the methods of land cover/land use research,
- synthetize knowledge about the natural and cultural landscape subsystems and spatial classify them,
- interpret the purpose landscape properties for management of landscape as environment;

Skills:
- apply obtained knowledge of landscape diagnosis for design of landscape project as relevant document for landscape planning and management.

Course Syllabus:
Syllabus of Lectures:

1. Paradigms and principles of the integrated landscape research.
2. Concept and dimensions of landscape.
3. Geoecological methods of landscape research.
4. Natural landscape, subsystem of resources and ecosystem services.
5. Processes in landscape.
6. Identification of flood risks and integrated management of catchment basin.
7. Methods of land cover/land use research.
8. Procedures of landscape ecological planning - LANDEP.
9. Spatial classification of natural and cultural landscape.
10. Purpose landscape properties and their assessment.
11. Landscape synthesis – a geographical approach of landscape planning.
12. Optimization of land use, sustainable development and landscape project.
13. Management of landscape as environment.

Recommended literary resources:

OŤAHEĽ, J., SOLÁR, V., MICHAELI, E. 2022. KRAJINA: Integrované prístupy a metódy výskumu. Vydavateľstvo Prešovskej univerzity. Grafotlač Prešov. 218 s., ISBN 978-80-555-3043-7 DRDOŠ, J. Geoekológia a environmentalistika. I. časť. Vysokoškolské učebné texty. FHPV, Prešovská univerzita, 1999. DRDOŠ, J., MICHAELI, E.: (ed.): Geoekológia a environmentalistika. Environmentálne plánovanie v regionálnom rozvoji. II. časť. Vysokoškolské učebné texty. FHPV, Prešovská univerzita, 2005. FARINA, A. Landscape ecology in action. Kluwer Academic Publishers. Dordrecht, 2000. FERANEC, J., OŤAHEĽ, J.: Krajinná pokrývka Slovenska. Veda, Bratislava, 2001. GERGEL, S.E., TURNER, M.G. eds. Learning landscape ecology. A practical guide to concepts and techniques. Springer, New York, 2002. MINÁR, J. et al.: Geoekologický (komplexný fyzickogeografický) výskum a mapovanie vo veľkých mierkach. Geografické spektrum, 3, Bratislava, 2001.

Required language skills:
Slovak language

Notes: The course is taught only in winter term

Course assessment:
The total number of assessed students:

A	B	C	D	E	FX
-	-	-	-	-	-

Lecturer: doc. RNDr. Vladimír Solár, PhD., prof. Ing. Jozef Vilček, PhD.

Date of the latest revision: 31.10.2024

Approved by: prof. Ing. Jozef Vilček, PhD.

University Name: University of Presov in Presov

Faculty Name: Faculty of Humanities and Natural Sciences

Course code: 2GAG/MKOUK/24	**Course title:** Landscape protection and sustainability

Type, load and method of training activities:
Total number of lessons: 150 lessons
Number of contact lessons: 30 lessons

- Lecture: 2 lessons per week = 20 lessons
- Seminar: 1 lesson per week = 10 lessons

Individual preparation of the final thesis: 30 lessons
Individual preparation form field practice: 30 lessons
Individual preparation for continuous written test: 30 lessons
Self-study and preparation for the exam: 30 lessons
Method: combined

Number of Credits: 5

Recommended term of study: 2th term

Degree of study: 2st degree in the study programme: Geography and Land Management

Prerequisites: -

Conditions for course completion:

1. Preparation and submission of the final thesis (theme: Comprehensive geographical characteristic of the chosen large protected area - national park or protected area) or elaboration of the inventory sheet of a small protected area.
2. Active participation in the field practice in the chosen Slovak national park.
3. Written test: If the student wants to acquire the evaluation A (excellent), he/she has to acquire at least 90%, for the evaluation B 80%, for the evaluation C at least 70%, for the evaluation D 60%, for the evaluation E at least 50%. If the student acquires less than 50%, he/she will get the evaluation FX.
4. Exam - oral exam: If the student wants to acquire the evaluation A (excellent), he/she has to acquire at least 90%, for the evaluation B 80%, for the evaluation C at least 70%, for the evaluation D 60%, for the evaluation E at least 50%. If the student acquires less than 50%, he/she will get the evaluation FX.

If the student acquires less than 30% of points from the written test, or if the student does not submit final thesis according to the schedule, or if he does not participate in the field practice, he/she will not receive the credits. The achievement of requirements 1 - 3 are the conditions for the participation in the exam.
The total evaluation of this course will be calculated as the arithmetic average of the results from the final written test, final thesis, and oral exam.

Educational Outcomes: By the end of the course, students will be able to:
Knowledge:
- describe the development of nature and landscape protection in Slovakia and in the world
- interpret basic legislation, standards and nature and landscape protection programs,
- define and interpret the need of sustainable system of natural resources use;
- categorize the types of protected areas in Slovakia and in the world,
- analyze and synthesize the attributes and aspects of nature and landscape protection in individual national parks and protected landscape areas
- interpret the concept of NATURA 2000 and its content,

Skills:
- work with the information system of state nature protection
- process the inventory sheet of a small protected area
- propose measures aimed at the landscape sustainability.

Competences:
- apply the acquired knowledge about nature and landscape protection and sustainable development in planning and decision-making processes

Course Syllabus:
Syllabus of Lectures:

1. Introduction to the nature and landscape protection, definition of permanently sustainable development.
2. Development of territorial nature protection in Slovakia and in the world.
3. Institutions and organisations of the nature and landscape protection in Slovakia and in the world.
4. Law number 543/2002 about the natural and landscape protection.
5. Agenda 21, environmental risks
6. The state of the environment, causes and results of its changes in the Slovak republic

7. Categorisation of the protected areas and the degrees of natural protection.
8. Natural Parks in Slovakia
9. Protected landscape areas in Slovakia
10. Protection of abiotic components of the landscape in Slovakia.
11. Protection of fauna and flora in Slovakia.
12. Program NATURA 2000, the scheme of asserting the principles of permanently sustainable development: steps for solving local, regional and global problems.
13. Geography and natural protection in the regional development and landscape management.

Recommended literary resources:

1. Ambróz, L. et al. (2009). Chránené krajinné oblasti Slovenska. DAJAMA. Bratislava, 128 p;
2. Ambróz, L. et al. (2009). Národné parky Slovenska. DAJAMA. Bratislava, 128 p;
3. Čech, V. (2015). Geografické aspekty ochrany prírody a krajiny. Vysokoškolská učebnica. FHPV PU Prešov, 221 s.
4. Čech, V., Drdoš, J. (2009). Geoekológia a enviromentalistika I: náuka o krajine, jej predmet a metodika skúmania. Prešov, FHPV PU Prešov, 181 s. ISBN 978-80-8068-981-0.
5. Demo, M., Hronec, O., Tóthová, M. et al. (2007). Udržateľný rozvoj. SPU Nitra, 439 s.
6. Eagles P. F. J., McCool S. F. (2002). Tourism in national parks and protected areas: planning and management. CABI, Oxon, New York, 320 p;
7. Maglocký, Š. et al. (2000). Ochrana flóry v Slovenskej republike. Nitra: SPU, skriptá, 204 p;
8. Mike, A. (2013). Management Planning for Nature Conservation. A Theoretical Basis & Practical Guide. 2nd edition. Springer, 522 p;
9. Mose, I. (ed.) (2007). Protected Areas and Regional Development in Europe: Towards a New Model for the 21st Century. Ashgate Publishing, 249 p;
10. Noskovič, J. et al. (2011). Ochrana a tvorba životného prostredia, Nitra: SPU, 116 p;
11. Sláviková, D., Jančová., G. (2003). Ochrana prírody a krajiny (skriptá). TU Zvolen;
12. Šeffer, J., Lasák, R., (eds.) (2004). Natura 2000 na Slovensku – metodika identifikácie území. DAPHNE – Inštitút aplikovanej ekológie, Štátna ochrana prírody SR, Bratislava, 107 p;
13. Šíbl, J. et al. (2002). Ochrana fauny v Slovenskej republike. Nitra: SPU, skriptá, 204 p;
14. Šíbl, J. et al. (2006). Územná ochrana prírody a starostlivosť o chránené územia. SPU Nitra, 127p;
15. Vološčuk, I. (2001). Starostlivosť o chránené územia. Zvolen : FEE TU, 178 p;
16. Vološčuk, I. (2003). Ochrana prírody a krajiny. TU Zvolen, 234 p;
17. Zákon NR SR č. 543/2002 Z. z. o ochrane prírody a krajiny

Required language skills: Slovak language

Notes: The course is taught only in summer term

Course assessment:

The total number of assessed students:

A	B	C	D	E	FX
-	-	-	-	-	-

Lecturer: doc. RNDr. Vladimír Čech, PhD., RNDr. Juliana Krokusová, PhD.

Date of the latest revision: 31.10.2024

Approved by: prof. Ing. Jozef Vilček, PhD.

University Name: University of Prešov

Faculty: Faculty of Humanities and Natural Sciences

Course code: 2GAG/MKDS1/24	**Course Title:** Master Thesis Seminar 1

Type, load and method of training activities:
Total number of hours: 60 hours
Number of hours of contact lessons: 10 hours
- Seminars = 10 hours

Preparation for seminar: 50 hours
Method: combined

Number of Credits: 2 * 1 credit = 30 hours

Recommended term of study : 2nd term

Degree of study: 2nd degree in the study programme: Geography and Land Management

Prerequisites: -

Conditions for course completion:
- Interim assessment of the presentations during semester
- Preparation of the first part of Master Thesis (Theoretical-methodological introduction and methodological design of Master Thesis)
- Preparation of presentation about methodological design of Master Thesis

To pass the course, it is necessary to successfully complete the seminars. Active participation in the seminars is.. Students, who do not submit these do not fulfil the conditions for passing the course. In this case, a student receives the grade FX. Final assessment will be done on the base of average partial grades (presentation a assessment of the first introductory part of Master Thesis made by supervisor).

Learning outcomes: *student will be able to:*
Knowledge:
- recognize the rules and guidelines in order to prepare Master Thesis,
- recognize the rules of correct citations and protection of intelectual property,
- recognize ethical principles of scientific work,
- recognize the basic bibliographical databases,
- recognize the principles of the creation of methodological design of thesis,

Skills:
- implement the rules, guidelines and principle knowledge in the process of preparing thesis,

Competencies:
- present the bibliographical sources towards concrete topic;
- communicate ideas fluently and effectively by written in a manner appropriate to the thesis

Course Syllabus:
1. Introductory seminar.
2. Rules and guidelines for master thesis.
3. Ethical issues, citations standards and protection of intelectual property.
4. Bibliographical databases.
5. Scope and topic of thesis.
6. Formulations the aims of thesis.
7. Schedule and methodological design of thesis.
8. Preliminary structure of thesis.
9. Closing seminar.

Recommended bibliography and other sources:
Blunt, A., Souch, C., eds., Publishing in Geography. A Guide for New Researchers. London: Royal Geographical Society. www.rgs.org. Čmejrková, S., Daneš, F., Světlá, J., (1999): Jak napsat odborný text. Praha: Leda. Katuščák, D. (2008): Ako písať záverečné a kvalifikačné práce. 5. nezmenené vydanie.Nitra : Enigma, 162 s. ISBN 978-80-89132-45-4. Meško, D., Katuščák, D., Findra, J. a kol. (2005): Akademická príručka. Martin: Osveta, ISBN 80-8063-200-6. Kimlička, Š., 2002. Ako citovať a vytvárať zoznamy bibliografických odkazov podľa noriem ISO 690 pre klasické aj elektronické zdroje. Bratislava: Stimul, 82s. Skalka, J. a kol. (2009): Prevencia o odhaľovanie plagiátorstva. Nitra: UKF, 2009. 126 s., ISBN 978-80-8094-612-8. Smernica o náležitostiach záverečných prác, ich bibliografickej registrácii, kontrole originality, uchovávaní a sprístupňovaní. [online]. Prešov: PU. [cit.15.12.2021]. Dostupné na: http://www.pulib.sk/web/data/pulib/subory/stranka/ezp-smernica-2021.pdf
Zásady k témam, rozsahu, kvalitatívnym štandardom, kritériám hodnotenia a obhajobám bakalárskych, diplomových a rigoróznych prác. [online]. Prešov: PU, FHPV, Katedra geografie a aplikovanej geoinfomatiky [cit.15.12.2021]. Dostupné na: https://www.unipo.sk/public/media/30510/ZasadyZaverecnychPrac.pdf

Required language skills:
Slovak language

Notes: course is running during summer semester only

Course assessment:

A	B	C	D	E	FX

Lecturer: doc. RNDr. Štefan Koco, PhD., prof. Ing. Jozef Vilček, PhD.

Date of latest revision: 31.10.2024

Approved by: prof. Ing. Jozef Vilček, PhD.

University Name: University of Prešov

Faculty: Faculty of Humanities and Natural Sciences

Course code: 2GAG/MKDS2/24	**Course Title:** Master Thesis Seminar 2

Type, load and method of training activities:
Total number of hours: 60 hours
Number of hours of contact lessons: 10 hours
- Seminars = 10 hours

Preparation for seminar: 50 hours
Method: combined

Number of Credits: 2 * 1 credit = 30 hours

Recommended term of study: 4th term

Degree of study: 2nd degree in the study programme: Geography and Land Management

Prerequisites: 2GAG/MKDS1/24 Master Thesis Seminar 1

Conditions for course completion:
The requirement for successfully ending the subject is participation in seminars. A student can have a maximum of 2 justified absences.
Student is required to deliver a Master thesis consultation statement signed by supervisor. The credits will not be granted, if student does not consult his writing and the results of his work with his supervisor (the grade FX).
During the semester, student is obliged to work out the individual parts of thesis – exactly formulate the problem, aim of research, establish hypotheses, propose and create a research method (questionnaire, test, public inquiry), prepare a presentation for the final thesis defence, which indicates the basic theoretical base, aims and methodological approach of research problem processing.
At the end of the teaching semester, student delivers the pre-draft version of the thesis, which will contain all thesis requirements - the content and formal aspects. On the proposal from supervisor, the teacher will be able to grant the credits.

Learning outcomes: student will be able to:
Knowledge:
- create and explain the structure of the Master thesis and the meaning of its parts,
- describe the basic elements of formal structure of the work and observe them while writing,
- define a research problem, hypothesis and realize them,
- define the methods of selection and data processing, and use them in own research,

Skills:
- practically implement the various phases of quantitative investigation,
- implement the interpretation of research findings by using different thought processes, realize deduction, generalizations, formulating conclusions,

Competencies:
- prepare for the Master thesis defence, suggest a way of basic theses presenting by applying different patterns for organizing the presentation,
- effectively tackle a theoretical concerns during the presentation of thesis,
- critically evaluate the presentation and argue thoroughly in the discussion.

Course Syllabus:
1. Preparation of Master thesis, time schedule of implementation and consultations.
2. Collection and processing of necessary information and statistical resources.
3. Realization of research, recording of results, conclusions, illustrations, tables, graphs and maps.
4. Continuous work on the text of the Master thesis.
5. Formal editing of the master thesis, formal editing of the text, numbering, illustrations, tables, graphs and maps.
6. Submission of the thesis.
7. Preparation for the defense and creating the presentation.

Recommended bibliography and other sources:
Blunt, A., Souch, C., eds., Publishing in Geography. A Guide for New Researchers. London: Royal Geographical Society. www.rgs.org. Čmejrková, S., Daneš, F., Světlá, J., (1999): Jak napsat odborný text. Praha: Leda. Katuščák, D. (2008): Ako písať záverečné a kvalifikačné práce. 5. nezmenené vydanie.Nitra : Enigma, 162 s. ISBN 978-80-89132-45-4. Meško, D., Katuščák, D., Findra, J. a kol. (2005): Akademická príručka. Martin: Osveta, ISBN 80-8063-200-6. Kimlička, Š., 2002. Ako citovať a vytvárať zoznamy bibliografických odkazov podľa noriem ISO 690 pre klasické aj elektronické zdroje. Bratislava: Stimul, 82s. Skalka, J. a kol. (2009): Prevencia o odhaľovanie plagiátorstva. Nitra: UKF, 2009. 126 s., ISBN 978-80-8094-612-8. Smernica o náležitostiach záverečných prác,

ich bibliografickej registrácii, kontrole originality, uchovávaní a sprístupňovaní. [online]. Prešov: PU. [cit.15.12.2021]. Dostupné na: http://www.pulib.sk/web/data/pulib/subory/stranka/ezp-smernica-2021.pdf
Zásady k témam, rozsahu, kvalitatívnym štandardom, kritériám hodnotenia a obhajobám bakalárskych, diplomových a rigoróznych prác. [online]. Prešov: PU, FHPV, Katedra geografie a aplikovanej geoinfomatiky [cit.15.12.2021]. Dostupné na: https://www.unipo.sk/public/media/30510/ZasadyZaverecnychPrac.pdf

Required language skills:
Slovak language

Notes: course is running during summer semester only

Course assessment:

A	B	C	D	E	FX

Lecturer: doc. RNDr. Štefan Koco, PhD., prof. Ing. Jozef Vilček, PhD.

Date of latest revision: 31.10.2024

Approved by: prof. Ing. Jozef Vilček, PhD.

University Name: University of Prešov in Prešov

Faculty Name: Faculty of Humanities and Natural Sciences

Course code: 2GAG/MKODP/24	**Course title:** Professional practice

Type, load and method of training activities:
Total number of lessons: 90 hours
Number of contact lessons: 0 hours
Duration of practice: 10 working days
Daily subsidy under practice: 6 hours
Preparation of a report from practice, colloquium: 30 hours
Method: combined

Number of Credits: 4

Recommended term of study: 4st term

Degree of study: 2st degree in the study programme: Geography and Land Management

Prerequisites: -

Conditions for course completion:
The student will prepare a report on the practice, which will include:
Introduction, in which the student characterizes institution where he worked. Characteristics of the workplace must contain all information about the institution (except for classified information).
The second chapter of the report of practice will include a detailed characterization under individual work days (must be dated) 10 working days with a subsidy of 6 hours a day at the workplace. Students can also prepare alternative presentation of their work in the institution.
The report shall contain an evaluation the practice of head of institution and it must be signed by the head. Scope of the Report of the practice is 3500 words.

Evaluation reports from practice:
The student has **graduated** the practice. This evaluation obtains a student who completes practice and prepare a report on the practice according to the above requirements. The practice is evaluated according to a report from practice and by rating the students in the institution of practice.
Practice is **not graduating (FX).** The evaluation of **FX not graduating** will be obtained by a student who did not participate in the internship or did not prepared the report from the practice at all, or the report did not have a prescribed structure.

Educational Outcomes: Students are required to in the institution of practice:
- acquaint with the institution of practice,
- obtain information about the management and the importance of institution for the region,
- acquainted with the nature of work in the institution,
- participation on tasks in institution of practice,
- to present in the institution, the knowledge obtained by studying,
- to present skills in GIS technology,
- to present ability to process geographic problem analysis which needs of the institution,
- to process data from questionnaires or polls,
- to present their knowledge and skills with the possibility obtaining jobs,

Course Syllabus:
Syllabus of Lectures: 0

Recommended literary resources:
Information about the requirements to meet the evaluation of practice.

Required language skills:
Slovak or English language: If the student has practice in foreign institution

Notes: The course is taught only in summer term

Course assessment: The condition for the evaluation of the internship is the participation in the internship in the given institution and the presentation of the report at the colloquium (rating: passed, failed).

A	B	C	D	E	FX
-	-	-	-	-	-

Lecturer: doc. RNDr. Vladimír Solár, PhD., prof. Ing. Jozef Vilček, PhD.

Date of the latest revision: 31.10.2024

Approved by: prof. Ing. Jozef Vilček, PhD.

University Name: University of Prešov in Prešov

Faculty Name: Faculty of humanities and natural sciences

Course code: 2GAG/MKRDM/24	**Course title:** Regional disparities and their measuring

Type, load and method of educational activities:
Total number of lessons: 90
Number of contact lessons: 20

- Lecture: 1 lesson per week = 10 lessons
- Seminar: 1 lesson per week = 10 lessons

Self-study and preparation for the seminar: 30 lessons
Self-study and preparation for the test: 40 lessons
Method: combined

Number of credits: 3

Recommended term of study: 2nd term

Degree of study: 2nd degree in study programme: Geography and Land Management

Prerequisites: -

Conditions for course completion:

1. Written test: For A grade (excellent) a student must acquire at least 90%, for grade B at least 80%, for grade C at least 70%, for grade D at least 60%, for grade E at least 50%. A student who acquires less than 50% will be graded FX (failed).
2. Preparation of a short presentation for the seminar (10 min.) according to the agreed time schedule about the selected region and its disparities.

Credits will not be assigned to a student who acquires less than 50% at the written test or to a student who did not prepare a mandatory presentation according to the time schedule or to a student who was absent from 2 or more seminars.

Educational Outcomes: By the end of the course, students will be able to:
Knowledge:
Define and interpret in own words the concept of disparity and regional disparity. Will be able to enumerate and characterize approaches to the identification and evaluation of regional disparities and will know the position of regional disparities within regional development theories. At the same time, he will be able to list and briefly characterize the basic indicators and methods used to assess regional disparities in the context of selected EU countries, V4 and within Slovakia.
Skills:
Independently obtain adequate information from the literature and other sources for the needs of assessing regional disparities. It applies a methodological procedure in the assessment of regional disparities in the selected region.
Competencies:
Present the results of the study of literature and other sources and will be able to participate in a professional discussion on the presented results.

Course Syllabus:

1. Definition of the term disparity and regional disparity, basic classification.
2. Approaches to identification and evaluation of regional disparities.
3. Basic attributes of regional disparities.
4. Regional disparities in the theories of regional development.
5. Classification of regional disparities.
6. Sources of information for monitoring regional disparities.
7. Indicators for evaluation of regional disparities.
8. Methods of regional disparities evaluation I.
9. Methods of regional disparities evaluation II.
10. Regional disparities in selected EU countries.
11. Regional disparities in V4 countries.
12. Regional disparities and their evaluation in Slovakia I.
13. Regional disparities and their evaluation in Slovakia II.

Recommended literary resources:

KLAMÁR, R., ROSIČ, M., MADZIKOVÁ, A., KROKUSOVÁ, J., PASTERNÁK, T., KOZOŇ, J.: Regionálny rozvoj – faktory, disparity a cezhraničná spolupráca. Prešov: Vydavateľstvo Prešovskej univerzity, ISBN 978-80-555-2326-2, 318 s., 2019. MATLOVIČ, R., KLAMÁR, R., MATLOVIČOVÁ, K.: Vývoj regionálnych disparít začiatkom 21. storočia na Slovensku vo svetle vybraných indikátorov. Regionální studia č. 2, Vysoká škola ekonomická v Praze, Praha, 2-12, 2008. MATLOVIČ, R., MATLOVIČOVÁ, K.: Regionálne disparity a ich riešenie na Slovensku v rozličných kontextoch. FPHV PU, Prešov. Acta Facultatis Studiorum Humanitatis et Naturae Univesitatis Prešoviensis, Prírodné vedy, Folia Geographica 18, 8-88, 2011. MICHAELI, E., MATLOVIČ, R., IŠTOK, R., KLAMÁR, R., HOFIERKA, J., MINTÁLOVÁ, T., MITRÍKOVÁ, J.: Regionálny rozvoj pre geografov. Vydavateľstvo Prešovskej univerzity, Prešov, 717 s., 2010. MICHÁLEK, A.: Teoreticko-konceptuálne východiská výskumu priestorových a regionálnych disparít. Acta Geographica Universitates Comenianae, Vol. 56, No. 1, 25-43, 2012. KLAMÁR, R.: Vývoj regionálnych disparít na Slovensku s osobitným zreteľom na regióny východného Slovenska. FPHV PU, Prešov. Acta Facultatis Studiorum Humanitatis et Naturae Univesitatis Prešoviensis, Prírodné vedy, Folia Geographica 18, 89-170, 2011. KUTSCHERAUER, A.: Disparity a jejich vplyv na územní rozvoj země. In: Regionální disparity v územním rozvoji ČR – jejich vznik, identifikace a eliminace. VŠB – Technická univerzita Ostrava, Ekonomická fakulta, Šilheřovice, 1-11, 2008. KUTSCHERAUER, A. a KOL.: Regionální disparity. Disparity v regionálním rozvoji České republiky - pojetí, teorie, klasifikace a hodnocení, VŠB-Technická univerzita, Ekonomická fakulta, Ostrava, s. 151, 2010. SVOBODA, D.: Slovensko a regionálne rozdiely. Teórie, regióny, indikátory, metódy. Konzervatívny inštitút M. R. Štefánika, Bratislava, s. 49, 2006.

Required language skills:
English

Notes: the course is taught only in summer term

Course assessment:
The total number of assessed students:

A	B	C	D	E	FX
-	-	-	-	-	-

Lecturer: doc. RNDr. Radoslav Klamár, PhD.

Date of the latest revision: 31.10.2024

Approved by: prof. Ing. Jozef Vilček, PhD.

University Name: University of Presov in Presov

Faculty Name: Faculty of Humanities and Natural Sciences

Course code: 2GAG/MKDPZ/24	**Course title:** Remote Sensing

Type, load and method of training activities:
Total number of lessons: **150** lessons
Number of contact lessons: **30** lessons

- Lecture: 2 lessons per week = **20** lessons
- Seminar: 1 lesson per week = **10** lessons

Individual preparation and preparation for the seminar: **60** lessons
Self-study and processing of home assigments: **60** lessons
Method: combined

Number of Credits: 5

Recommended term of study: 2nd term

Degree of study: 2nd degree in the study programme: Geography and Land Management

Prerequisites: -

Conditions for course completion:

1. Processing of home assignments
2. Graduating the final theoretical-practical test: To obtain grade A (excellent) must obtain at least 90%, to obtain grade B 80%, to obtain grade C at least 70%, to obtain grade D 60%, to obtain grade E at least 50%. A student who receives less than 50% will be assessed the degree FX.

Credits will not be awarded to a student who doesn´t submit all homework's and final test will be assessed degree of FX.

Educational Outcomes: The graduate of the course knows:
Knowledge:
sufficiently deeply and cross-sectionally define the object and subject of remote sensing, clarify the sequences and relationships of remote sensing as a significant source of spatial data for processing in the geographic information systems environment. Explains the fundamental of remote sensing, its methods and procedures of remote sensing data processing in the process of analysis of objects and phenomena in the landscape and describes the methods of their cartographic visualization.
Skills:
in an active way search for remote sensing data sources, apply procedures for processing digital contactless records with computer tools, design and use appropriate methods of their cartographic visualization.
Competences:
to solve issues connected with obtaining a suitable database of spatial data and their processing by means of spatial analysis tools. Independently or in teams, he uses remote sensing tools and methods in examining the properties of objects and the patterns of phenomena occurring on the earth's surface. Can professionally and clearly formulate information on applied procedures for remote sensing data processing and present the achieved results in relation to the issues addressed.

Syllabus of subject:

1. Introduction, basic concepts, historical overview – basic assumptions, the dividing of remote sensing methods (RS).
2. The physical principles of remote sensing - electromagnetic radiation, atmospheric windows, the basic zone of the spectrum, useful in remote sensing.
3. The spectral behaviour of objects - selected kinds of surfaces, vegetation, water, snow and ice, soils, minerals and rocks.
4. Conventional (photographic) methods of sensing the earth's surface - aerial photography, photographic materials, colour images, filters, aerial photography properties.
5. Basics of analogue interpretations images and aerial photography - the interpretation of images, interpretive signs, interpretive keys, photographic chamber, digital cameras, aerial photography, snapshot flights.
6. Unconventional methods of sensing the earth's surface - television systems, scanners, satellite systems, digital images and their characteristics, the basic methods of visualization.
7. Unconventional methods of sensing the earth's surface - an overview of satellite systems (LANDSAT, SENTINEL, SPOT, IRS, IKONOS ...).
8. Remote sensing outside the optical part of the spectrum.
9. Practical examples of spatial data acquisition by remote sensing methods.

Recommended literary resources: KOCO, Š., 2021: Teoretické základy diaľkového prieskumu Zeme, Prešov: Prešovská univerzita v Prešove, 106 s.; DOBROVOLNÝ, P., 1998: Dálkový průzkum Země. Digitální zpracování obrazu. Skripta PřF MU Brno.; HALOUNOVÁ, L., PAVELKA, K. 2008. Dálkový průzkum Země. Praha: České vysoké učení technické, 182 s.; CHUDÝ, F. 2013. Mapovanie a diaľkový prieskum Zeme. Zvolen: Technická univerzita vo Zvolene, 201 s.; JENSEN, J.R. 2015. Introductory digital image processing : a remote sensing perspective (4th ed.). Glenview: Pearson Education, 658 s.; KOCO, Š., DUBRAVSKÁ, A., VILČEK, J., GRUĽOVÁ, D. 2021, Geospatial approaches to monitoring the spread of invasive species of Solidago spp. Remote Sensing, vol. 13 (23), 2021, pp1-19; LILLESAND, T.M., KIEFER, R.W., CHIPMAN, J.W. 2015. Remote Sensing and Image Interpretation (7th ed.). New Jersey: John Wiley & Sons, 726 s.; REES, W.G. 2012. Physical Principles of Remote Sensing (3th ed.). Cambridge: Cambridge University Press, 492 s.; TÁTOŠOVÁ, L. 2017. Diaľkový prieskum Zeme. Nitra: Slovenská poľnohospodárska univerzita, 114 s.; ŽELEZNÝ, M. 2012: Dálkový průzkum Země (skriptá), Západočeská univerzita v Plzni, Katedra kybernetiky. 93 s. URL: http://www.kky.zcu.cz/cs/courses/dpz.

Required language skills:
Slovak language

Notes: The course is taught only in summer term

Course assessment:
The total number of assessed students.

A	B	C	D	E	FX
-	-	-	-	-	-

Lecturer: doc. RNDr. Štefan Koco, PhD., Mgr. Miloslav Michalko, PhD.

Date of the latest revision: 31.10.2024

Approved by: Prof. Ing. Jozef Vilček, PhD.

University Name: University of Presov in Presov

Faculty Name: Faculty of Humanities and Natural Sciences

Course code: 2GAG/MKPAG/24	**Course title:** Spatial Analysis in GIS

Type, load and method of training activities:
Total number of lessons: **180** lessons
Number of contact lessons: **40** lessons
- Lecture: 2 lessons per week = **20** lessons
- Seminar: 2 lesson per week = **20** lessons

Individual preparation for the seminar: **50** lessons
Self-study and preparation for exam: **90** lessons
Method: **combined method**

Number of Credits: 6

Recommended term of study: 1st term

Degree of study: 2nd degree in the study programme: Geography and Geography and Land Management

Prerequisites: -

Conditions for course completion:

1. Processing assigned ongoing tasks at the seminar.
2. Graduating a practical test of spatial data processing: To obtain grade A (excellent) must obtain at least 90%, to obtain grade B 80%, to obtain grade C at least 70%, to obtain grade D 60%, to obtain grade E at least 50%. A student who receives less than 50% will be assessed the degree FX.
3. Exam - the final written test or oral examination: To obtain grade A (excellent) must obtain at least 90%, to obtain grade B 80%, to obtain grade C at least 70%, to obtain grade D 60%, to obtain grade E at least 50%. A student who receives less than 50% will be assessed the degree FX.

Credits will not be awarded to a student who doesn´t pass some of the assigned homework at the seminars and the assessment from the practical test or exam will be FX.
Overall evaluation of courses is calculated as the arithmetic average of the ratings for the final practical test and exam.

Educational Outcomes: The graduate of the course knows:
Knowledge:
sufficiently deeply and cross-sectionally define the objectives and focus of spatial analyses in GIS and to clarify the importance of spatial analyses in geographical research. Justify and describe the areas of application of spatial analysis in geography. To appoint and describe the methods and procedures used in spatial analysis of geographical data.
Skills:
choose suitable GIS tools and apply them in the analysis of spatial data. Design procedures for solution the analysis of geographical data in solving specific problems and tasks in geographical research.
Competences:
analyse the relationship, sequences, processes of spatial phenomena and objects that are hidden in the analysed data. Clearly and objectively present proposed problem-solving procedures and tasks and expected results. Using GIS tools in the process of spatial decision-making and territory optimization independently or in coordinated work teams. It has a sufficient knowledge base to obtain new information and problem-solving procedures with spatial analysis tools in GIS.

Syllabus of subject:

1. Definition and classification of spatial analysis.
2. Conceptual models and the digital representation of the landscape.
3. Map algebra.
4. Selection from spatial databases.
5. Analytical overlay spatial data.
6. Classification of spatial data.
7. Distance analysis.
8. Network analysis.
9. Spatial interpolation.
10. Digital elevation model and morphometric analysis.
11. Modelling and simulation.
12. Use of spatial analysis in landscape management

Recommended literary resources: BURIAN, L., JENČO, M., RUSNÁK, M. 2015. GRASS GIS: Geovedné aplikácie. Bratislava: Univerzita Komenského, dostupne na: https://fns.uniba.sk/fileadmin/prif/geog/kfg/O_katedre/Publik_fulltexty/BurianJencoRusnak2015_GRASS-GISGeovedneAplikacie.zip; FARKAS, G. 2017. Practical GIS. Birmingham: Packt Publishing Ltd.; FISCHER, MM., GETTIS, A. (eds)., 2010: Handbook of applied spatial analysis: software tools, methods and applications. Berlin, Springer.; GALLAY, M., 2015. Digitálne modelovanie reliéfu v Open-Source GIS. Košice: Univerzita Pavla Jozefa Šafárika; HLÁSNY, T., VIZI, L.; 2007: Geografické informačné systémy - priestorové analýzy. Zephyros a Národné lesnícke centrum, Zvolen; KAŇUK, J. 2015. Priestorové analýzy a modelovanie. Košice: Univerzita Pavla Jozefa Šafárika; KRCHO, J. 1990. Morfometrická analýza a digitálne modely georeliéfu. Bratislava: Veda; LONGLEY, P. A., GOODCHILD, M. F., MAGUIRE, D. J., RHIND, D. W., 2015: Geographic Information Systems and Science, , 4th Edition. Hoboken: John Wiley & Sons.; MENKE, K., SMITH jr., R., PIRELLI, L., Van HOESEN, J. 2015. Mastering QGIS, 2nd edition. Birmingham: Packt Publishing Ltd.; STILLWELL, J., CLARKE, G. 2003. Applied GIS and Spatial Analysis. Hoboken: John Wiley & Sons; TORMA, S., KOCO, Š., VILČEK, J., 2020, Nitrogen and phosphorus transport as a criterion for soil categorisation. Soil Science Annual, vol. 71 (2), 2020, pp. 174-181; VILČEK, J., KOCO, Š. 2018. Integrated index of agricultural soil quality in Slovakia. Journal of Maps, vol. 14 (2), pp. 68-76.

Required language skills:
Slovak language

Notes: The course is taught only in winter term

Course assessment:
The total number of assessed students.

A	B	C	D	E	FX
-	-	-	-	-	-

Lecturer: doc. RNDr. Štefan Koco, PhD., Mgr. Miloslav Michalko, PhD.

Date of the latest revision: 31.10.2024

Approved by: Prof. Ing. Jozef Vilček, PhD.

University Name: University of Presov in Presov

Faculty Name: Faculty of Humanities and Natural Sciences

Code: 2GAG/MKPER/24	**Title of Course:** Spatial economy and real estate market

Type, load and method of training activities:
Total number of lessons: 150 lessons
Number of contact lessons: 30 lessons

- Lecture: 1 lessons per week = 20 lessons
- Seminar: 1 lesson per week = 10 lessons

Self-study and preparation for the seminar: 40 lessons
Self-study and preparation for the exam: 80 lessons
Method: combined

Number of Credits: 5

Semester: 1st term

Degree/Level: 2nd degree in the study programme: Geography and Land Management

Prerequisites: -

Grading Policy (Assessment/Evaluation):

1. Examination- written test and oral examination. To obtain the evaluation A (excellent), a student has to obtain at least 90%, to obtain B 80%, for the evaluation C at least 70%, for the evaluation D 60%, for the evaluation E at least 50%. A student who receives less than 50% will obtain the evaluation FX.
2. Preparation of short presentations to the seminar (range 10 slides). According to the agreed timetable about the assessment of approaches in regional development.

Credits will not be awarded to a student who will receive for written test less than 50% points or to a student who will not prepare all the required assignments according to the established timetable or to a student who will miss 2 or more seminars. Condition for participation in the exam is processing of short presentations.

Aims and Objectives: By the end of the course, students will be able to:
Knowledge:
Explain and compare different understanding of the concept of space in the mathematical, geographical and economic conceived. Can describe and interpret the different stages of the development of spatial economy in a wider context and the relevance and importance of location factors in terms of localization theories, in which they can evaluate mechanism of localization theories. Can define and analyse the properties and factors affecting the real estate market, actors and resources in the real estate and explain the principle of price map and its importance.
Skills:
Integrate acquired knowledge about the spatial localization of activities and their distribution patterns at different development documents. Can acquired knowledge of the real estate market in ensuring stdudent's own housing in the future.
Competences:
Critically evaluate and present the results of the study of the literature and other sources related to the real estate market and engage in expert discussions on the presented results towards professional and lay audiences.

Syllabus/Indicative Content:

1. Space and its understanding (mathematical, geographical, economic.
2. Origin and development of the spatial economy.
3. The emergence of location theory.
4. The location theory and location factors.
5. The general location theory, new trends and tendencies in the localization of companies.
6. Real estate market - term, basic characteristics and spatial context.
7. Properties of real estate market (supply and demand, market segmentation).
8. Physical and social factors of real estate market, real estate market classification.
9. Structural policies in the real estate market and sources of information.
10. The main actors in the real estate market.
11. Real estate financing.
12. Real estate and criteria for their selection.
13. Real estate market and its functioning in practice.

Suggested readings:

ADAMUŠČIN, A., IVANIČKA, K.: Charakteristika a vlastnosti realitných trhov. Nehnuteľnosti a Bývanie, 1, 23-31, 2011. CÁR, M.: Realitný trh v súvislostiach. Bratislava: STU, ISBN 978-80-227-4266-5, 80 s., 2014. ČAPO, M.: Kupujeme nehnuteľnosť, predávame nehnuteľnosť. Roberts&Boyd, 208 s., 2010. GLOS, M. a kol.: Realitná príručka. Piešťany: MGM & Partners, ISBN 978-80-970-9251-1, 69 s., 2012. HAMALOVÁ, M. a kol: Priestorová ekonomika. Bratislava: Ekonomická univerzita, 143 s., 1996. IVANIČKA, K. a kol.: Trh nehnuteľností a developerský proces. Bratislava: STU, 199 s., 2007. MICHAELI, E., MATLOVIČ, R., IŠTOK, R., KLAMÁR, R., HOFIERKA, J., MINTÁLOVÁ, T., MITRÍKOVÁ, J.: Regionálny rozvoj pre geografov. Prešov: Vydavateľstvo Prešovskej univerzity, 717 s., 2010. PIERUŽEK, T.: Investovanie do nehnuteľností od A po Z. 131 s., 2016. ŠPIRKOVÁ, D., RAKŠÁNYI, P.: Príčiny a dôsledky hypotekárnej krízy. Nehnuteľnosti a Bývanie, 2, 1-8, 2011. TVRDOŇ, J.: Trh nehnuteľností. Bratislava: Ekonóm, ISBN 978-80-225-3569-4, 129 s., 2013.

Language of Instruction:
Slovak language

Other course information: The course is taught only in winter term

Grading history
The total number of assessed students: -

A	B	C	D	E	FX

Lecturer/Instructor: doc. RNDr. Radoslav Klamár, PhD., Mgr. Miloslav Michalko, PhD.

Last update: 31.10.2024

Approved by: prof. Ing. Jozef Vilček, PhD.

University Name: University of Presov in Presov

Faculty Name: Faculty of Humanities and Natural Sciences

Course code: 2GAG/MKPSK/24	**Course title:** Spatial landscape structure

Type, load and method of training activities:
Total number of lessons: 150 lessons
Number of contact lessons: 30 lessons

- Lecture: 1 lesson per week = 10 lessons
- Seminar: 2 lesson per week = 20 lessons

Individual preparation for the seminar: 40 lessons
Self-study and preparation of semester project: 80 lessons
Method: combine

Number of Credits: 5

Recommended term of study: 2nd term

Degree of study: 2nd degree in the study programme: Geography and Land Management

Prerequisites: -

Conditions for course completion:

Preparation of semester project – creating the maps of particular time horizons in GIS, overlaying the layers, evaluating the changes in landscape structure and their description, resp. representation of changes in landscape of heterogeneity. Brief physical-geographical characteristic of the territory.

To obtain an assessment A (excellent) a student has to obtain at least 90 %, to obtain an assessment B 80 %, an assessment C at least 70 %, an assessment D 60 %, an assessment E lat least 50 %. A student who receives less than 50 % will be assessed by degree of FX.

Credits will not be awarded to a student who does not submit the semester project or who obtains for it the assessment FX.

Educational Outcomes:
By the end of the course, students will be able to:
Knowledge:
- know what is land and landscape structure, ecological stability of landscape, carrying capacity, potential of landscape;
- explain the difference between land cover and land use;
- know the basic factors and processes that determine the spatial landscape arrangement;
- describe the evolution of mapping land cover and characterize changes in land cover and land use;
- know the basic background data for land cover mapping;

Skills:
- apply the theoretical knowledge to solve the practical problems;
- create and overlay the land cover layers;
- evaluate correctly and interpret the data obtained.

Competences:
- use the results of analyzes;
- engage in a professional discussion on the results obtained.

Course Syllabus:
Syllabus of Lectures:

1. The term landscape, landscape structure (definitions in terms of landscape ecological methodology LANDEP - primary, secondary and tertiary), the division of landscape to the natural one (in the state before the Neolithic revolution) and anthropogenic one.
2. The human transformation and hemeroby of the landscape. Unaffected, slightly affected till to anthropogenic converted complexes. Reversible and irreversible nature of the phenomena in the landscape. Levels of intervention intensity in the landscape in terms of Mazúr (1971) and levels of anthropogenic transformation of the landscape.
3. Land cover and land use (definition, differences). Methodology Corine Land Cover. Development of mapping land cover.

4. Object, subject, form, methods, orientation and results in the land use. Factors and processes determining the spatial arrangement of the land use forms. Direction, intensity, prognosis in the land use, typing and regionalization of land use. Function of land cover site. Development of the country - short, medium and long-term changes in the land use, land use dimension (spatial, temporal, socio-cultural, economic, technical, ecologic-environmental).
5. Creating and editing the underlying layers in GIS (scanning, georeferencing, vectorization). Overlapping the layers, assessment of changes in land cover and land use. Calculation of changes indexes.
6. Heterogeneity and diversity of the landscape.
7. Possibilities of using GIS in landscape-ecological research. Problems associated with the application of GIS in landscape-ecological research.
8. Selected methods of landscape-ecological research using GIS (potentional viewing in the landscape assessed using GIS, calculate morphometric parameters relief in GIS and its application for the determination of potential water erosion, identification of seats to form avalanches).
9. Potential of landscape as the ability to meet the requirements for its use. The concept and kinds of potential of the landscape. Possibilities for evaluating the potential of land-based land cover in GIS.
10. Ecological stability of the landscape. Carrying capacity, types of carryring capacity (natural, social, environmental, spatial). Load factor and carrying capacity of the landscape. Coefficient of ecological stability of the landscape. Possibilities for evaluating eco-stabilizing ability of the landscape based on land cover in GIS.
11. Structure patterns and landscape-ecological indices.
12. Trends of development landscape.
13. Landscape image.

Recommended literary resources:

Beylich, A. A. 2021. Landscapes and Landforms of Norway. Springer Nature Switzerland AG, 2021, 288 s. ISBN: 3030525627.

Feranec, J., Oťaheľ, J. 1999. Mapovanie krajinnej pokrývky metódou CORINE v mierke 1: 50 000: návrh legendy pre krajiny programu Phare. In: Geografický časopis, roč. 51, 1999, č. 1.

Feranec, J., Oťaheľ, J. 2001. Krajinná pokrývka Slovenska. Land Cover of Slovakia (in English). Bratislava: Veda, 2001, 124 s. ISBN 80-224-0663-5.

Kolejka, J. a kol. (ed). 2011. Krajina Česka a Slovenska v současném výzkumu. Brno: Masarykova univerzita, 2011, 342 s. ISBN 978-80-210-5420-2.

Ivanová, M. 2013. Zmeny krajinnej pokrývky zázemia Zemplínskej šíravy v rokoch 1956-2009. In: Geografické práce 15, Prešov: FHPV PU, 2013, 233 s. ISBN 978-80-555-0728-6.

Kozová, E. Pauditšová, M. Finka (Eds). Krajinné plánovanie. Bratislava: katedra krajinnej ekológie, Univerzita Komenského v Bratislave, 2010, 326 s. ISBN: 978-80-227-3354-0.

Žigrai, F. 2000. Dimenzie a znaky kultúrnej krajiny. In: Životné prostredie, roč. 34, 2000, č. 5, s. 229-233.

Required language skills:
Slovak language

Notes: The course is taught only in summer term.

Course assessment:
The total number of assessed students:

A	B	C	D	E	FX

Lecturer: JUDr. RNDr. Monika Ivanová, PhD., doc. RNDr. Vladimír Solár, PhD.

Date of the latest revision: 31.10.2024

Approved by: prof. Ing. Jozef Vilček, PhD.

University Name: University of Prešov in Prešov

Faculty Name: Faculty of Humanities and Natural Sciences

Course code:: 2GAG/MKUZP/24	**Course title:** Spatial planning

Type, load and method of training activities:
Total number of hours: 150
Number of contact hours of teaching: 30 hours
• Lecture: 2 hours per week: 20 hours
• Seminar: 1 hour per week: 10 hours
• Preparation of seminar work, preparation of presentations, self-study and preparation for the exam: 120 hours
Method: combined

Number of Credits: 5

Recommended term of study: 1st semester

Degree of study: 2nd level in the study program Geography and Land Management

Prerequisites:

Conditions for course completion:

1. Continuous written test: To obtain grade A (excellent) he must obtain at least 90%, to obtain grade B 80%, to grade C at least 70%, to grade D 60%, to grade E at least 50%. A student who obtains less than 50% will be graded FX.
2. 2. Examination - final written test: To obtain grade A (excellent) must obtain at least 90%, to obtain grade B 80%, to obtain grade C at least 70%, to obtain grade D 60%, to obtain grade E at least 50%. A student who obtains less than 50% will be graded FX.
3. 3. Preparation of short presentations for the seminar (each pair of students will prepare ppt. presentation during the semester (range of at least 5 slides) according to the agreed time schedule on the landscape ecological plan, e. g. on landscape ecological planning in his hometown or other city of the Slovak Republic.
   Credits will not be awarded to a student who obtains less than 50% points from any written examination or to a student who has received an FX evaluation for a seminar paper or to a student who has not prepared all mandatory presentations according to the time schedule or to a student who has not been active 3 or more times in seminars. The activity means giving a presentation and participating in the discussion (question, note, comment, critical remark).

Educational Outcomes: The graduate of the course can:
Knowledge:
- understand the fundamental principles and concepts of spatial planning, including land use.
- become familiar with the legislative and regulatory framework governing spatial planning, with an emphasis on
- Slovak standards (e.g., Act No. 200/2022 Coll., Decree No. 392/2023 Coll.).
- comprehend the significance and role of geospatial data in spatial planning, including methods of data collection, validation, and documentation.
- formulate landscape ecological planning in relation to the environment and citizens,
- identify the institution's priority role in relation to landscape ecological planning most important,
- define a set of all factors relevant to living beings and their communities, and can design media protection against pollution (air, water, soil),
- develop an environmental inventory of the area, predict impacts and determine suitability,
  and Conflict of interests as well as the carrying capacity of the country based on Land use and Land utilization research.
Skills:
- apply relevant legislation and standards to interpret spatial planning requirements for various types of land use and development.
- use practical tools, including GIS software, to create maps, analyze spatial data, and develop spatial planning documents.
- apply landscape ecological knowledge to selected regions,
- use the acquired knowledge in pedagogical practice,
- apply knowledge in field courses in geography,
- use the acquired knowledge in submitting OP projects for the modernization of geography teaching at all types of schools,
- obtain geographical information from literature and other sources;
Competences:
- present the results of the study of literature and other sources on colloquia,
- participate in a professional discussion on the presented results

- make informed and responsible decisions in spatial planning processes that take into account environmental, social, and economic factors.
- collaborate effectively in multidisciplinary teams, contributing geographical and spatial planning knowledge to achieve common project goals.

Course Syllabus:

Syllabus of Lectures:

1. Introduction to spatial planning principles.
2. Legislative and regulatory framework.
3. Data and documentation in spatial planning.
4. Practical tools for spatial planning for geographers.
5. Spatial data analysis for decision-making in spatial planning.
6. Template details and data model description according to "standards and methodology for spatial planning documentation 153/2024 coll."
7. Future trends and sustainability in spatial planning.
8. Origin and development of landscape ecological planning.
9. Focus and main role of landscape ecological planning, Landscape ecological planning and human-nature relationship.
10. Land use as a basis for landscape ecological planning. Relationship between Land use, Land cover and Land utilization.
11. Landscape ecological planning and landscape. Landscape Ecological Planning Act.
12. Territorial system of ecological stability.
13. Environmental Impact Assessment EIA. Strategic Environmental Assessment.ň SEA

Seminar syllabus:

1. Introductory seminar (introduction to the work system and evaluation criteria).
2. Application of legislation and regulations in spatial planning.
3. Validation and standardization of data for spatial planning documentation.
4. Use of gis tools in spatial planning creation.
5. Spatial analysis for decision support in spatial planning.
6. Data model structure and templates for spatial planning documentation.
7. Approaches to sustainable spatial planning.
8. Presentation of literary and other sources on the issue of landscape ecological planning.
9. Development of mapping and land use maps.
10. Presentation of ÚSES processing methodology and connection between NR-ÚSES, RUSES and MUSES.
11. Presentation of EIA issues, Presentation of SEA issues.
12. Distribution of stress factors in the country. Natural and anthropogenic stress factors. Primary and secondary stress factors.
13. Credit week - evaluation

Recommended literature: DRDOŠ, J. Geoekológia a environmentalistika. I. časť. Vysokoškolské učebné texty. FHPV, Prešovská univerzita, 1999. DRDOŠ, J., MICHAELI, E.: (ed.): Geoekológia a environmentalistika. Environmentálne plánovanie v regionálnom rozvoji. II. časť. Vysokoškolské učebné texty. FHPV, Prešovská univerzita, 2005. FERANEC, J., OŤAHEĽ, J.: Krajinná pokrývka Slovenska. Veda, Bratislava, 2001. KOZOVÁ, M. et al. (eds).: Krajinné plánovanie. Bratislava, STU, PrirFUK, 2010. MIKLÓS, L., IZAKOVIČOVÁ, Z.: Krajina ako geosystém, Veda, Bratislava, 1997. OŤAHEĽ, J. et al.: Krajinná štruktúra okresu Skalica: hodnotenie zmien, diverzity a stability. Geographia Slovaca, 19, Geografický ústav SAV, Bratislava, 2004. OŤAHEĽ, J. et al. Environmental planning: proposal of procedures. In Ekológia (Bratislava), 16, 1997, 403-420. WIENS, J.A., MOSS, M.R. (eds.). Issues and Perspectives in Landscape Ecology (Cambridge Studies in Landscape Ecology), Cambridge University Press, 2005. Zákon o územnom plánovaní. (2022). Zákon č. 200/2022 Z. z. o územnom plánovaní.Vyhláška o obsahu a spôsobe spracovania územnoplánovacej dokumentácie. (2023). Vyhláška č. 392/2023 Z. z. o obsahu a spôsobe spracovania ÚPD a všeobecných požiadavkách na priestorové usporiadanie a funkčné využívanie územia. Formuláre územnoplánovacej dokumentácie. (2024). Vyhláška č. 54/2024 Z. z., ktorou sa ustanovujú vzory formulárov používané v informačnom systéme územného plánovania a výstavby. Štandardy a metodika územnoplánovacej dokumentácie. (2024). Vyhláška č. 153/2024 Z. z., ktorou sa ustanovujú štandardy a metodika spracovania ÚPD. Zakladacie šablóny pre QGIS. Úrad pre územné plánovanie a výstavbu SR. Dostupné na https://uupv.sk

Language, knowledge of which is necessary to complete the course: Slovak language

Notes: Compulsory Subject in Winter Term

Course Assessment:

The total number of assessed students

A	B	C	D	E	FX

-	-	-	-	-	-

Lecturer: doc. RNDr. Vladimír Solár, PhD., Mgr. Miloslav Michalko, PhD.
Date of the last Revision: 31.10.2024
Schválil: prof. Ing. Jozef Vilček, PhD.

University Name: University of Prešov

Faculty: Faculty of Humanities and Natural Sciences

Course code: 2GAG/MKGMU/24	**Course Title:** Urban Geography and Urbanisation

Type, load and method of training activities:
Total number of hours: 150 hours
Number of hours of contact lessons: 30 hours

- Lecture: 2 lessons per week = 20 lessons
- Seminar: 1 lesson per week = 10 lessons

Preparation for seminar: 70 hours
Preparation for the exam: 50 hours
Method: combined

Number of Credits: 5

Recommended term of study : 3rd term

Degree of study: 2nd degree in the study programme: Geography and Land Management

Prerequisites: -

Conditions for course completion:

1. Preparation of short presentations for the seminar (each student will prepare 2 ppt presentations during the semester (range of at least 10 images) according to the agreed time schedule on the issues of the selected city and the selected urbanization process.

2. Exam - final written test: To obtain grade A (excellent) must obtain at least 90%, to obtain grade B 80%, to obtain grade C at least 70%, to obtain grade D 60%, to obtain grade E at least 50%. A student who obtains less than 50% will be graded FX.

Credits will not be awarded to a student who has not prepared all mandatory presentations according to the time schedule or to a student who has not been active in 3 or more seminars. The activity means giving a presentation and participating in the discussion (question, note, comment, critical remark). Double detected unexcused absence from lectures is the reason for the overall assessment mark of FX. The overall evaluation of the course is calculated as the arithmetic average of the evaluations for the presentations and the final written test.

Learning outcomes: *student will be able to:*

Knowledge:

The student is able to define and interpret knowledge of basic theoretical concepts explaining the origin of cities and interpret the various stages and aspects of urbanization and the context of urbanization with other environmental, social and economic processes. It explains the basic attributes and spatial aspects of the internal differentiation of urban space from a morphological, functional and socio-demographic point of view and determines the interrelationships between the mentioned partial intraurban structures. Synthesizes knowledge about partial intraurban structures using the concept of quality of life. Explains the knowledge of geographical concepts of functional-spatial arrangement of the urban network and functional classification of cities.

Skills:

Independently interprets information from the literature and other sources related to the field of urban geography. It interprets the phenomena and processes taking place within the current cities, compares these processes in terms of time and space, and judges further developmental changes in cities.

Competencies:

He applies the acquired knowledge in participating in the preparation of development documents of the city. It plans and proposes possibilities for better and more efficient use of urban space.

Course Syllabus:

1. Theories of city formation and development.
2. Stages and aspects of urbanisation.
3. The global context of contemporary urbanisation.
4. City management.
5. Urban morphology - an interurban perspective.
6. Urban physiology - an intra-urban perspective.
7. Suburbanization - origin, development and spatial forms.
8. The concept of the urban-rural continuum.
9. Manifestations of revitalization and commercialization in contemporary cities.
10. Gentrification.
11. Segregation and separation - manifestations and forms.
12. Dual city.
13. Concept of Smart Cities and Regions.

Recommended bibliography and other sources:

GAJDOŠ, P. a K. MORAVSKÁ, 2011. Suburbanizácia a jej podoby na Slovensku. Bratislava: SAV. ISBN 978-80-85544-67-1. HARVEY, D.: Rebel Cities. New Left Books, New York 2012., JACOBS, J.: Ekonomieměst. Mox Nox, Dolní Kounice 2012. JALOWIECKI, B., SZCZEPANSKI, M.S.: Miasto i przestrzen w perspektywiesocjologicznej. Scholar Warszawa2006. KROKUSOVÁ, Juliana, MAXIN, Matúš, PASTERNÁK, Tomáš. 2018. Zmeny priestorovej štruktúry mesta Prešov v kontexte revitalizácie a komercializácie, In: Mladá veda Young science, Roč. 6, č. 5 (2018), s. 80-91, ISSN 1339-3189. LANDRY, Ch.: The Creative City. Taylor&Francis, London 2008. KIM, J. 2022. Smart city trends: A focus on 5 countries and 15 companies. CITIES, roč. 123, DOI10.1016/j.cities.2021.103551. LISZEWSKI, S., ed., Geografia urbanistyczna. WUL Lodz, 2008. MATLOVIČ, R.: Geografia priestorovej štruktúry mesta Prešov. FHPV PU Prešov 1998. OŤAHEĽ, Ján; SOLÁR, Vladimír; MATLOVIČ, René; KROKUSOVÁ, Juliana; PAZÚROVÁ, Zuzana; IVANOVÁ, Monika. 2020. Prímestská krajina: analýza premien vplyvom suburbanizačných procesov v zázemí Prešova. In: Geografický časopis, Roč. 72, č. 2 (2020), s. 131-155, ISSN 0016-7193 – ISSN (online) 2453-8787. PACIONE, M.: Urban Geography – a global perspective. Routledge, London, 2009. POUŠ, Richard, 2013. Geografia mesta. Banská Bystrica: Fakulta prírodných vied Univerzity Mateja Bela. ISBN 9788055706269. PRYOR, Robin J. 1968. Defining the rural-urban fringe. Social Forces, 47, 202-215. STANILOV, K., a B. C., SCHEER, 2003. Suburban form: an international perpective. London: Routlege. ISBN 9780203561263. SÝKORA, Luděk, 1993. Gentrifikace: měnící se tvář vnitřních měst. In: Teoretické přistupy a vybrané problémy v současné geografii. Praha: Karlová Univerzita Praha. SÝKORA, Luděk, 2003. Suburbanizace a její spoločenské důsledky. Sociologický časopis, r. 39, č. 2, 217-233. SZYMANSKA, D.: Urbanizacja na swiece. PWN Warszawa 2007. ŠVÉDA, M. a R. PAZÚR, 2018. Priestorové formy rezidenčnej suburbanizácie v zázemí Bratislavy. Bratislava: Geografický časopis, č. 70, 231-258. VAN KEMPEN, Ronald, 2003. Segregation and housing conditions of immigrants in Western European cities. Eurex. ISBN 9781405121330. WHITEHAND, Jeremy W. R. 1967, Fringe belts a neglected aspects of urban geography. Transactions Institute of Geographers, 41, 223-233.

Required language skills:
Slovak language

Notes: course is running during winter semester only

Course assessment:

A	B	C	D	E	FX
-	-	-	-	-	-

Lecturer: RNDr. Juliana Krokusová, PhD.

Date of latest revision: 31.10.2024

Approved by: prof. Ing. Jozef Vilček, PhD.

University Name: University of Presov in Presov

Faculty Name: Faculty of Humanities and Natural Sciences

Course code: 2GAG/MKMOH/24	**Course title:** Waste Management

Type, load and method of training activities:
Total number of lessons: 120 lessons
Number of contact lessons: 20 lessons

- Lecture: 1 lesson per week = 10 lessons
- Seminar: 1 lesson per week = 10 lessons

Individual preparation and preparation of assignments for the seminar: 50 lessons
Self-study and preparation for ongoing evaluation: 50 lessons
Method: combined

Number of Credits: 4

Recommended term of study: 3rd term

Degree of study: 2nd degree in the study programme: Geography and Land Management

Prerequisites: -

Conditions for course completion:

1. Preparation and submission of the final thesis. Theme: The issue of Municipal Solid Waste in a chosen territory.
2. Active participation in the field practice oriented on the issue of waste management.
3. Final written test: If the student wants to acquire the evaluation A (excellent), he/she has to acquire at least 90%, for the evaluation B 80%, for the evaluation C at least 70%, for the evaluation D 60%, for the evaluation E at least 50%. If the student acquires less than 50%, student will get the evaluation FX.

The students, who does not submit the final thesis at the set time and who does not participate in the field practice, will not receive the credits. The achievement of requirements 1 and 2 are the conditions for the participation in the final written test.
The total evaluation of this course will be calculated as the arithmetic average of the results from the final written test and the final thesis.

Educational Outcomes: By the end of the course, students will be able to:
Knowledge:
- will be able to define and interpret the basic types and concepts of waste management in Slovakia and in the world;
- will be able to orientate in basic legislation, standards and programs in the field of waste management,
- will be able to explain the basic methods of waste recovery and disposal,
- will be able to assess new trends in waste management.

Skills:
- will be able to design a complete municipal waste management system

Competences:
- will be able to apply the acquired knowledge in the field of waste management in regional development,
- will be able to promote a waste minimization system in planning practice

Course syllabus:
Syllabus of Lectures:

1. The introduction to the waste management, the basic ideas.
2. Legislation of the waste management.
3. The formation and the types of wastes.
4. The conception of waste management.
5. The systems of separated collection.
6. Municipal waste.
7. The ways of assessing, recycling and disposal of waste.
8. Landfill of waste.
9. Treating of waste biologically
10. Treating of waste thermally
11. Energy from waste
12. New tendencies in the waste management
13. On the way to minimal waste

Recommended literary resources:

1. Badida, M. et al. (2007). Recyklácia a recyklačné technológie, Strojnícka fakulta TU Košice, 623 p;
2. Báreková, A., Sklenár, Š., Tátošová, L. (2011). Metodika nakladania s tuhým komunálnym odpadom v podmienkach vidieckej zástavby. 1. vyd. Nitra : Slovenská poľnohospodárska univerzita, 115 p;
3. Blackmann, W. C. (2001). Basic Hazardous Waste Management. 3th edition, CRC, 489 p;
4. Čermák, O. (2007). Odpadové hospodárstvo: Spôsoby zberu a odstraňovania odpadov, 1.vydanie, STU Bratislava 106 p;
5. Haghi, A. K. (ed.).(2011). Waste Management: Research Advances to Convert Waste to Wealth. Nova Science Publishers, 244 p;
6. Hreusík, S. (2007). Environmentálna ekonomika a manažment. 1.vydanie, Žilina: Žilinská univerzita, 179 p;
7. Chmielewská, E. (1997). Odpady. 1. vyd. Bratislava: Rilmex spol. s r. o., 149 p;
8. Christensen, T. H. (ed.).(2011). Solid Waste Technology & Management. Volume I., II., Blackwell Publishing Ltd., 1022 p;
9. Murray, R. (2002). Zero Waste. Greenpeace Environmental Trust, 213 p;
10. Nag, A., Vizayakumar, K. (2005). Environmental Education and Solid Waste Management. New Age International Pvt Ltd Publishers, 106 p;
11. Nemerow, N. L. (2011). Industrial Waste Treatment. Elsevier Science & Technology Books, 565 p;
12. Pichtel, J. (2014). Waste Management Practices: Municipal, Hazardous, and Industrial. 2nd edition. CRC Press, 676 p;
13. Popov, V., Pusch, R. (2006). Disposal of Hazardous Waste in Underground Mines. Wit Press, 284 p;
14. Rebellon, L. F. M. (ed.).(2012). Waste Management: An Integrated Vision. Intech, 360 p;
15. Smith, P. G., Scott, J. G. (2005). Dictionary of Water and Waste Management. 2nd edition, Elsevier Butterworth-Heinemann, 493 p;
16. Šooš, Ľ. (2007). Odpady 1 – Environmentálne technológie, STU Bratislava, 165 p;
17. Tchobanoglous, G., Kreith, F. (2002). Handbook of Solid Waste Management. 2nd edition, McGraw-Hill, 834 p;
18. Tölgyessy, J., Melicherčík, M. (2000). Globálne problémy životného prostredia a trvalo udržateľný rozvoj: Tuhé odpady. 1.vydanie, Fakulta prírodných vied UMB, Banská Bystrica, 117 p;
19. Watson, J. S. (1999). Separation Methods for Waste and Environmental Applications. Marcel Dekker, Inc., 614 p;
20. Williams, P. T. (2005). Waste Treatment and Disposal. 2nd edition, John Wiley & Sons Inc., 388 p;
21. Worrell, W. A., Vesilind, P. A. (2012). Solid Waste Engineering. 2nd edition. Cengage Learning, 427 p;
22. Zákon č.223/2001 Z. z. o odpadoch v znení neskorších predpisov
23. Zákon č. 416/2001 Z. z. o prechode niektorých kompetencií z orgánov štátnej správy na
    a. obce a vyššie územné celky
24. Zákon č. 582/2004 Z.z. o miestnych daniach a o miestnom poplatku za komunálny odpad drobný stavebný odpad a o zmene a doplnení niektorých zákonov

Required language skills
Slovak language

Notes: The course is taught only in winter term

Course assessment
The total number of assessed students:

A	B	C	D	E	FX
-	-	-	-	-	-

Lecturer: doc. RNDr. Vladimír Čech, PhD.

Date of the latest revision: 31.10.2024

Approved by: prof. Ing. Jozef Vilček, PhD.

University Name: University of Presov in Presov

Faculty Name: Faculty of Humanities and Natural Sciences

Course code: 2GAG/MKWGT/24	**Course title:** WebGIS Technologies

Type, load and method of training activities:
Total number of lessons: 120 lessons
Number of contact lessons: 20 lessons
Lecture: 1 lesson per week = 10 lessons
Seminar: 1 lesson per week = 10 lessons
Individual preparation of assignments for the seminar: 20 lessons
Individual preparation of seminar paper: 40 lessons
Self-study and preparation for the exam: 40 lessons
Method: combined

Number of Credits: 4

Recommended term of study: 2rd term

Degree of study: 2nd degree in the study programme: Geography and Land Management

Prerequisites: -

Conditions for course completion:

1. The exam – final written test: To obtain the grade A (the best) a student have to reach at least 90%, to obtain the grade B 80%, for the grade C at least 70%, for D 60% and for the grade E at least 50%. The student who will reach less than 50%, will be graded by the grade FX.
2. The preparation of short assignments for the seminar: Every pair of students will prepare two presentations in format ppt (minimum extent of 5 slides) during the term according to the agreed timetable.
3. The preparation of seminar paper: Every student will prepare a seminar paper (a proposal of own WebGIS application according to selected theme).

The credits will not be granted to a student who will reach for final written test less than 50% points, or to a student who will obtain for seminar paper the grade FX, or to a student who will not prepare all required presentations according to the agreed timetable, or to a student who will not be active in 3 or more seminars. The activity means presentation of presentations and involvement in a discussion (question, comment, critical reflection). For the exam is necessary to process all outputs according to paragraphs 2 and 3.
Total grade of course will be calculated as arithmetic average of grades for the seminar paper and final written test.

Educational Outcomes: By the end of the course, students will be able to:

Knowledge:
- classify the latest web technologies in GIS;
- explain web technologies frameworks;
- define open web mapping;
- describe server map services and explain modes of their operation;
- explain territory information systems and their use in government and the private sector;

Skills:
- propose specialized web application for GIS purposes;
- apply acquired knowledge in order to succeed in the labor market that is becoming increasingly information and communication oriented with emphasis on online map services.

Competences:
- present the results of studying literature and other sources;
- take part in expert discussion on the presented results.

Course Syllabus:

1. Introduction to Web Technologies in GIS.
2. Web Technologies Options. Framework.
3. Open Source Framework 1.
4. Open Source Framework 2.
5. Cloud Framework.
6. Proprietary Framework.
7. Localization Map Services.

8. Introduction to Open Web Mapping.
9. Map Servers and their Options.
10. Web Map Service (WMS). Web Feature Service (WFS).
11. Options How to Create Own Map Server.
12. Basic Features and Objectives of Territory Information Systems for the Needs of Government, Administrators Utilities, Industrial Companies and Service Providers.
13. Examples of Territory Information Systems in Government and Selected Organizations.

Recommended literary resources:

FU, Pinde, SUN, Jiulin. 2010. *Web GIS: Principles and Applications.* Esri Press. 2010. 312 p. ISBN-13: 978-1589482456;
Geoserver: https://docs.geoserver.org/
Geonetwork: https://geonetwork-opensource.org/
HOFIERKA, J.: Geografické informačné systémy a diaľkový prieskum Zeme. Vysokoškolské učebné texty. Prešov, FHPV PU, 2003;
Introduction to OpenGeo Suite. Dostupné na: http://workshops.boundlessgeo.com/suiteintro/;
TUČEK, J.: Geografické informační systémy. Principy a praxe. Computer Press, Praha, 1998.
Getting started with OSGeoLive: https://live.osgeo.org/en/quickstart/osgeolive_quickstart.html
Muriuki, C. M., & Kenduiywo, B. 2021. A multimedia web GIS portal for promotion of tourism in Kenya. Journal of Geographic Information System, 13(1), 1–15. https://doi.org/10.4236/jgis.2021.131001
Leaflet. 2014. Leaflet—A JavaScript library for interactive maps. https://leafletjs.com

Required language skills:
Slovak language

Notes: The course is taught only in winter term

Course assessment:
The total number of assessed students:.

A	B	C	D	E	FX
-	-	-	-	-	-

Lecturer: doc. RNDr. Štefan Koco, PhD., Mgr. Miloslav Michalko, PhD.

Date of the latest revision: 31.10.2024

Approved by: prof. Ing. Jozef Vilček, PhD.

University Name: University of Presov in Presov

Faculty Name: Faculty of Humanities and Natural Sciences

Course code: 2GAG/MKPGD/24	**Course title:** Working with Geospatial Data in Practice

Type, load and method of training activities:
Total number of lessons: 120 lessons
Number of contact lessons: 20 lessons
Lecture: 1 lesson per week = 10 lessons
Seminar: 1 lesson per week = 10 lessons
Individual preparation of assignments for the seminar: 20 lessons
Individual preparation of seminar paper: 40 lessons
Self-study and preparation for the exam: 40 lessons
Method: combined

Number of Credits: 4

Recommended term of study: 3rd term

Degree of study: 2nd degree in the study programme: Geography and Land Management

Prerequisites: -

Conditions for course completion:

1. The exam – final written test: To obtain the grade A (the best) a student have to reach at least 90%, to obtain the grade B 80%, for the grade C at least 70%, for D 60% and for the grade E at least 50%. The student who will reach less than 50%, will be graded by the grade FX.
2. The preparation of short assignments for the seminar: Every pair of students will prepare two presentations in format ppt (minimum extent of 5 slides) during the term according to the agreed timetable.
3. The preparation of seminar paper: Every student will prepare a seminar paper (a proposal of own WebGIS application according to selected theme).

The credits will not be granted to a student who will reach for final written test less than 50% points, or to a student who will obtain for seminar paper the grade FX, or to a student who will not prepare all required presentations according to the agreed timetable, or to a student who will not be active in 3 or more seminars. The activity means presentation of presentations and involvement in a discussion (question, comment, critical reflection). For the exam is necessary to process all outputs according to paragraphs 2 and 3.
Total grade of course will be calculated as arithmetic average of grades for the seminar paper and final written test.

Educational Outcomes: By the end of the course, students will be able to:

Knowledge:
- Understand the basic concepts of geospatial data collection and analysis;
- Identify and utilize open-source GIS tools and platforms for geospatial data processing;
- Describe real-world applications of geospatial data in regional planning, environmental management, and crisis response.

Skills:
- Collect, process, and analyze various types of geospatial data (e.g., satellite images, topographic data, climate data, and community data);
- Use GIS tools to create maps, design relational databases, and interpret spatial data for specific applications;
- Apply open-source software in practical geospatial projects with real-world impacts.

Competences:
- Collaborate on real-world projects involving geospatial data collection and analysis;
- Critically interpret spatial data and communicate findings effectively through visualizations;

Course Syllabus:
Lectures:

1. Introduction to Geospatial Data and Its Applications
2. Practical Overview of Open-Source GIS Tools
3. Data Collection Methods (Field Data, Remote Sensing, Community Data)
4. Analyzing Satellite Imagery and Topographic Data
5. Working with Environmental and Climate Data
6. Creating Relational Databases for Geospatial Projects
7. Visualization Techniques for Geospatial Data

8. Application of GIS in Regional Planning
9. GIS for Environmental Management
10. Crisis Management and Disaster Response with GIS
11. Practical Case Studies: Real-World Geospatial Projects I
12. Practical Case Studies: Real-World Geospatial Projects II
13. Final Project Preparation and Presentations

Seminars:

1. Collection of geospatial data and working with field records
2. Validation and cleaning of geospatial data
3. Analysis of point and line data for spatial decision-making
4. Working with raster data (e.g., satellite imagery)
5. Visualization and interpretation of topographic and climate data
6. Application of climate data in environmental analysis
7. Working with relational databases and linking with geospatial data
8. Creating thematic maps for regional planning
9. Preparing interactive maps for sharing results
10. Spatial analysis and optimization for transportation and logistics
11. Analysis of community-collected data and its integration
12. Simulation of crisis scenarios and response using GIS tools
13. Presentation and interpretation of the final project

Recommended literary resources:

Coetzee, S., Ivánová, I., Mitasova, H., & Brovelli, M. A. (2020). Open geospatial software and data: A review of the current state and a perspective into the future. ISPRS International Journal of Geo-Information, 9(2), 90. https://doi.org/10.3390/ijgi9020090

Zatelli, P., Gobbi, S., Tattoni, C., Cantiani, M. G., La Porta, N., Rocchini, D., Zorzi, N., & Ciolli, M. (2019). Relevance of the cell neighborhood size in landscape metrics evaluation and free or open source software implementations. ISPRS International Journal of Geo-Information, 8(12), 586. https://doi.org/10.3390/ijgi8120586

Pirotti, F., Neteler, M., & Rocchini, D. (2017). Preface to the special issue “Open science for earth remote sensing: Latest developments in software and data”. Open Geospatial Data, Software and Standards, 2, Article 26. https://doi.org/10.1186/s40965-017-0039-y

Assis, L. F. F. G., Ferreira, K. R., Vinhas, L., Maurano, L., Almeida, C., Carvalho, A., Rodrigues, J., Maciel, A., & Camargo, C. (2019). TerraBrasilis: A spatial data analytics infrastructure for large-scale thematic mapping. ISPRS International Journal of Geo-Information, 8(11), 513. https://doi.org/10.3390/ijgi8110513

Arias de Reyna, M., & Simoes, J. (2016). Empowering citizen science through free and open source GIS. Open Geospatial Data, Software and Standards, 1, Article 7. https://doi.org/10.1186/s40965-016-0007-0

Required language skills:
Slovak language

Notes: The course is taught only in winter term

Course assessment:
The total number of assessed students:.

A	B	C	D	E	FX
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Lecturer: doc. RNDr. Štefan Koco, PhD., Mgr. Miloslav Michalko, PhD.

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