

COURSE OUTLINE

1. Study programme information

1.1 Higher education institution	Universitatea de Vest din Timișoara
1.2 Faculty / Department	Chimie, Biologie, Geografie / Departamentul de Geografie
1.3 Sub-department	Geografie
1.4 Field of study	Geography
1.5 Level of study	Master's degree
1.6 Study programme / Qualification	Geographic Information Systems

2. Course information

2.1 Course title			GI	S pro	jects management				
2.2 Course convenor/ Lecturer		Prof. dr. habil. Hermann Klug							
2.3 Teaching assistant		Pro	of. dr.	habil. Hermann Klug					
2.4 Year of study	II	2.5 Semester		1	2.6 Type of assessment	Е	2.7 Course type		DS/
									DO

3. Total estimated time (hours of didactic activities per semester)

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3.1 Number of hours per week	2	of which: 3.2 lecture	1	3.3 seminar/laboratory	1
3.4 Total hours in the curriculum	28	of which: 3.5 lecture	14	3.6 seminar/laboratory	14
Time distribution:					
Studying textbooks, course materials, bibliography and notes					30
Further research in libraries, on electronic platforms and in the field					30
Preparing seminars/ laboratories, homework, research papers, portfolios and essays					30
Tutoring					
Examinations					
Other activities					

3.7 Total hours of individual study	122
3.8 Total hours per semester	150
3.9 Number of credits	6

4. Prerequisites (if applicable)

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4.1 based on curriculum	
4.2 based on competencies	

5. Conditions (if applicable)

5.1 for the course	• at least 80% attendance at course activities to finish the course successfully
5.2 for the seminar/laboratory	 Mandatory attendance. A maximum of 3 absences (each 90 minutes) are allowed during the week of the block course fulfillment of obligations for laboratory work
5.3 for individual supervision	• For each of the participants four hours of individual support and supervision is planned as remote sessions during the preparation of the final proposal.



6. Objectives of the discipline - expected learning outcomes to the formation of which contribute to the completion and promotion of the discipline

	General knowledge on dayalanment of a GIS project proposal
	General knowledge on development of a GIS project proposal.
	• Formulate a title and design a research proposal based on existing funding possibilities.
Knowledges	Knowledge on Gantt chart and Pert diagram, SWOT and SMART analysis.
	• Knowledge on project activities, management, organization, phases, design, implementation.
	Knowledge on project monitoring and evaluation
	• Organize limited resources and respect the deadlines using Gantt and Perth diagrams.
Skills	 Develop and analyse a proposal according to SWOT and SMART procedures.
SKIIIS	• Techniques to plan, manage, and deliver GIS projects.
	• Implement budget figures, project management processes.
	• Self-control of the learning process, diagnosis of training needs, reflective analysis of own professional activity, correlated with the application of efficient and responsible work strategies.
Responsibility and autonomy	• Assuming roles / functions of leading the activity of complex professional groups or some institutions, associated with the application of efficient work techniques in a multidisciplinary team, on various hierarchical levels.
	• Execution of complex professional tasks, in conditions of autonomy and professional independence

7. Content

7.1 Lecture	Teaching methods	Observations
Introduction to the course; Reviewing the own skills and ideas;	Lecture, heuristic	1 hour
Definition of the term "project" and "management"; Tasks of project	conversation,	
manager; Finding partners through networking: Conferences, Seminars,	problematization,	
Summer Schools, workshops as place for information exchange.	discovery learning,	
From the idea towards the project; Possibilities to acquire funds. Local	case studies.	1 hour
(governments), national (research authorities), international (EU, EEA,		
). Concrete examples will be given from FP 7, eContenPlus, Interreg.		
National contact points and project officer.		
Starting position: Requirement / Demand analysis; Formulation of goals		1 hour
and objectives/ the first ideas in a one paper format.		
Getting started with the proposal. The planning strategy. The planning		1 hour
steps: problem analysis, objectives, actors, alternatives, etc. Intervention		
strategies. Project activities.		
The project planning matrix. Contributing to or leading a proposal: two		1 hour
perspectives. Moderation in meetings and telecons.		
Steps towards a successful proposal. The guides for applicants. Talking		1 hour
to the national contact point. Preparing the budget. Drafting and		
exchanging text, figures, tables, datasets. The work packages and work		
tasks and their responsibilities.		
The Gantt chart and Pert diagram (Program Evaluation and Review		1 hour
Technique). SWOT Analysis (Strength, Weaknesses, Opportunities,		
Threats) SMART Analysis (Specific, Measurable, Available, Relevant,		
Time-bound). Evaluation criteria (Relevance, efficiency, effectiveness,		
impact, sustainability). The evaluation procedure: Things going on		
between proposal submission and (non) acceptance of a proposal.		
Project negotiations. Starting phase of a project: Project organisation and		1 hour
project phases (what, how, when, by whom). Analysis, design,		
implementation. The tasks as project coordinator or collaborator		



(coordination as partner) Kick-off meeting Financial requirements.		
Risk management Management structure and procedures: The different	1 hour	
project teams (advisory board, technical committee,).		
The mid-term review as an external audit.	1 hour	
Monitoring and Evaluation: The Risk Control Database.	1 hour	
Quality assurance Intellectual Property Right (IPR), copyright	1 hour	
Communication and documentation: The different types of progress		
reports.		
GIS in organizations. GIS developer and user.	1 hour	
Reviewing the whole project cycle.	1 hour	

Bibliography

- Copies of all PPT slides presented and the practical work results will be available on the elearning platform.
- Special literature on project management will be provided as PDF (if available) or as reference. All references and also the study material will be in English language.)

7.2 Seminar / laboratory	Teaching methods	Observations
Definition what makes a project. One page abstract about the main	Hands-on exercises,	2 hours
project ideas in a condensed and very concise format.	case studies,	
Preparation for a conference (Where to find a conference corresponding	scientific	
to the ideas written down?).	explanation and	
Financing the proposal writing phase.	demonstration,	2 hours
Getting familiar with different programmes. Each group is analysing a	individual work,	
certain funding programme and presenting the results to their colleagues.	tutoring	
Given a certain call text, students write down their project idea and share		
those ideas with other colleagues.		
Students prepare a meeting with elements necessary to clarify things		
according proposal requirements and present them in an open discussion.		
Problem diagrams and objective diagrams.		
Analysing the requirements of a FP 7 proposal (Environment and		1 hour
Climate Change) and summarize the main points presented in a PPT		
slide.		
Doing the proposal budget in Excel.		1 hour
Establish a Gantt chart and a Pert diagram for the FP 7 project you		1 hour
analysed.		
Design a template to capture the different project phases.		1 hour
Prepare a draft of a kick-off meeting for the project.		1 hour
Establish a risk control database and think about shortcomings and		1 hour
possible bottlenecks.		
Elaborate the costs and benefits of a GIS for planning institutions.		1 hour
Individual project - Realization of a project proposal in order to access		2 hours
the financing.		
Assistance for individual practical project.		1 hour

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 - 8. Corroborating course content with the expectations held by the representatives of the epistemic community, professional associations and typical employers in the field of the study programme

The content of the discipline was elaborated in accordance with the curriculum and meets the teaching and scientific requirements corresponding to the similar disciplines in other universities. Stimulates student's personal involvement in identifying new national and international financing sources and provides the necessary



knowledge to access projects in the field of GIS.

9. Assessment

Type of activity	9.1 Assessment criteria	9.2 Assessment methods	9.3 Weight in
			the final mark
9.4 Lecture	Participation in the debates	Continuous assessment throughout the	40%
	initiated in the course	course	
9.5 Seminar / laboratory	Evaluating the knowledge of how to make a project proposal	The examination is based on the results of the working group. Each group submits text documents developed and presented in the practical activity. The presentation of the results by the group	20%
		as well as written documents will be part of the student's evaluation.	
0 (Minimum on of	Quality of the content and presentation of the project	Presentation of the project	40%

9.6 Minimum performance standard

- Minimum mark 5 at course evaluation.
- Minimum mark 5 at practical exam.
- Compliance of project deadline.

Date Course convenor's signature

11.09.2023 Prof. dr. habil. Hermann Klug

Date of approval in the department Head of department's signature