### SYLLABUS

1. Information about the program				
1.1 Institution of higher education	Babeș-Bolyai University, Cluj-Napoca			
1.2 Faculty	Faculty of Geography			
1.3 Department	Regional Geography and Territorial Planning			
1.4 Study area	Geography			
1.5 Level of study	MA Studies			
1.6 Program of study	Tourism Planning and Developement			

#### 2. Information about the course

2.1 Title of the cou	rse		ANNALYSIS TECHNIQUES IN TOURISM				
2.2 Course taught b	by:		PhD.	Lecturer Silviu Fonogea	ì		
2.3 Seminar by:			PhD. Lecturer Silviu Fonogea				
2.4 Year of study	Ι	2.5	J 1			DO	
		Semester	ster assessment			р.	

## 3. Time allocation (hours per semester of pedagogical activities)

3.1 Hours per week	3	Of which: 3.2 curs	2	3.3 seminar	1
3.4 Total hours - semester	42	Of which: 3.5 curs	28	3.6 seminar	14
Time allocation					Ore
Study for exams					17
Additional documentation in the library, on the internet and in the field and working on the semester project and presentation					
Reading for the seminar and writing the projects					12
Tutoring					5
Exams					4
Other					
3 7 Total hours for individua					1

**3.7 Total hours for individual** 

study 3.8 Total hours per semester

3.9 Number of credits

### **4. Prerequisites** (if any)

4.1 curriculum-related	Geographical Information System
4.2 competence-related	Computer assistance abilities

# 5. Other requirements (if any)

5.1. for the course	Computer/laptop, video projector in the classes
5.2. for the seminar	Computer/laptop, video projector, internet connection and specific software in the classes

6. Compe	ies	
Generic	C1 Initiation in the systemic analysis and interpretation of geographical compone levels of holarchic integration and identification inside territorial unities of the ideal to environment assessment C2 Proper use of geodatabases for a sustainable management of specific geographical C3 Analysis (understanding and explaining) of geographical phenomena using modeling C4 Acquiring of technical skills and developing territorial investigation ability using sa imagery in ArcGis	ools of issues g GIS
Specific	CT1 Integrative assessment of elements structured under data bases unities and develo of techniques of interdisciplinary operational geographical research CT2 Knowledge of the work methods used in geographical analysis, especially the com- based ones CT3 Further deepening of the abilities necessary for the multidisciplinary cooperation communication and partnership relations based on acquired knowledge and developm trans disciplinary scientific reasoning CT4 Self-evaluation of continuous professional development with the aim of integration adaptability to the labor market requirements	nputer- on, for nent of

### 7. Course objectives

7. Course objectives	
7.1 General goals	The course intents to familiarise the students with the investigationn principles, technniques and technologies of GIS and remote sensing (the latest method of earth-surface investigation), its main purpose being the acquirement of a basic set of knowlege regarding GIS applicability in land management and the analysis of tourist phenomenon
7.2 Specific objectives	<ul> <li>acquiring skills on geographical data and software management</li> <li>getting started into ArcGIS commands</li> <li>basic general knowledge about satellite imagery processing</li> <li>the ability of putting together high complexity GIS projects</li> </ul>

# 8. Outline

8. 1 Course	Teaching methods	Observations
Sysytems of internal representation of digital maps Representation of maps on thematical layers	Exposition combined with active- participative methods	2 h
Digitisation	Systematic and independent observation Computer-based learning	2 h
Geodatabase Questioning the geodatabasis Updating the geodatabase	Oral presentation with interactive sections Heuristic conversation explanation use of specialized software	2 h
Remote sensing: general issues. The advantage of indirect investigation of the earth surface. General notions on electromagnatic waves	Oral presentation, conversation, exposition, combined with activ- participative methods	2 h
Working with remote sensing data	Oral presentation, conversation, use of specialized software	4 h
Thematical photo-interpretation	Oral presentation, conversation, use of specialized software	2 h

Integration of digital imagery in GIS for obtainig digital maps	Heuristic conversation, explanation, use of specialized software	4 h
Spatial analyst – terrritorial complex investigation tool. Case study: the optimal context for the setting of an accomodation structure in a territorial administrative unit	Oral presentation, conversation, exposition, combined with activ- participative methods, use of specialized software	2 h
Intelligence, inspiration, context – guidelines for a proper tourist advertisment. Case study – Gărâna village	Oral presentation, conversation, exposition, combined with activ- participative methods	2 h
Territorial perception and identity. Touristic geobranding	Oral presentation, conversation, exposition, combined with activ- participative methods	4 h
Touristic recovery of territories' historical memory: restoring medieval castels. Case study: Ciceu Fortress	Oral presentation, conversation	2 h

### Referrences

- 1. Benedek J., (2004), *Amenajarea teritoriului și dezvoltarea regională*, Editura Presa Universitară Clujeană, Cluj-Napoca.
- 2. Cocean P., (2007), *Geografia turismului*, Editura Focul Viu, Cluj-Napoca.
- 3. Cocean P., Dezsi S., (2001), *Prospectare și geoinformare turistică*, Editura Presa Universitară Clujeană, Cluj-Napoca.
- 4. Imbroane Al. M., Moore D., (1999), *Inițiere în GIS și teledetecție*, Editura Presa Universitară Clujeană, Cluj-Napoca.
- 5. James B. Campbell and Randolph H. Wynne, 2011, "Introduction to Remote Sensing", The Guilford Press.
- 6. Mihai B., (2008), *Teledetecție. Noțiuni generale*, Editura Credis, București.
- 7. Mihai B., (2009), *Teledetecție. Noțiuni și principii fundamentale*, Editura Universității din București.
- 8. Ryerson, B. and S Aronoff, 2010, "Why Where Matters: Understanding and Profiting from GPS, GIS and Remote Sensing", Manotick, ON: Kin Geomatics, 378 pp.

8. 2 Seminar	Teaching methods	Observations
Introduction into ArcGIS		2 h
Digitization in ArcGIS. Geocodification	use of specialized software;	2 h
Map creation. Layout operations	interactive teaching methods	2 h
Spatial analysis	(conversation,	2 h
Complex map diagrams for an accommodation structure	demonstration, observation, problematisation, experiment	2 h
Uploading and visualisation of satellite imagery. Monoband and multiband visualisation. Putting together a stack, combining bands, true colour and false colour visualisation	and modelling); action-based teaching methods (exercise, algorithm, computer-based thematical application).	2 h
Image classification. Normalised difference indexes computing		2 h

Referrences

- 1. Mather P. M., (2000), Computer processing of Remotely-Sensed Images, John Wiley & Sons, Chichester, England.
- 2. Mihai B., (2007), Teledetecție. Vol 1. Procesarea digitală a imaginilor, Editura Universității din Bucuresti.
- 3. Sabins F.F., (1997), Remote Sensing. Principles and Interpretation, W.H. Freeman & Co, New York.
- \*\*\*, ERDAS Field Guide, ERDAS Inc, Atlanta, Georgia, USA, 2002. 4.
- 5. \*\*\*, ERDAS Tour Guide, ERDAS Inc, Atlanta, Georgia, USA, 2002

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Glosar de termeni http://www.ccrs.nrcan.gc.ca/ccrs/learn/terms/glossary/glossary\_e.html

## 9. Harmonize the content of the discipline with the expectations of representatives of the epistemic community, professional associations and representative employers in the field of the program

- The content of this discipline puts into light the latest orientation and practices in geographical research.

Type of activity	10.1 Criteria for assessment	10.2 Method of assessment	10.3 Percent of final grade
10.4 Course	<ul> <li>Evaluation of the degree of systematization and use of the acquired knowledge;</li> <li>Logical coherence and argumentative force;</li> <li>Degree of the assimilation of special terminology;</li> </ul>	Written assessment Active participation to courses	50%
10.5 Seminar	<ul> <li>Capacity of putting it into practice;</li> <li>Capacity of operating with the acquired knowledge;</li> </ul>	Final written	50%
<ul><li>10.6 Minimum perfor</li><li>Complex map created</li></ul>			

### 10. Assessment and evaluation

Date

Signature course lecturer

Signature seminar lecturer

25.05.2020

PhD. Lecturer Silviu

PhD. Lecturer Silviu Fonogea

Date of departmental approval

Signature department chair