

| Study program | | Study cycle Orientation | | First study cycle Regional and Spatial Planning | |
|------------------------------------|--|----------------------------|---|--|---------------|
| SUBJECT | | | | | |
| Subject name | | Practicum in GIS | | | |
| Subject code | Semester | Subject status | | ECTS credits | Contact hours |
| GIS-301.5-2 | V | Optional | | 2 | 50 |
| Prerequisites | | | | | |
| Assigned professors and assistants | Subject Leader | | Dr. Sc. Nusret Drešković, Full Professor | | |
| | Teaching Assistants | | MA Amina Sivac, Senior Teaching Assistant | | |
| Subject objectives | <p>The main Subject objectives are:</p> <ul style="list-style-type: none"> - Exploring and acquiring knowledge of students about the content and structure of a digital atlas of Bosnia and Herzegovina; - Exploring and acquiring knowledge of students about editing existing and creating new thematic spatial data sets from a digital atlas of Bosnia and Herzegovina; - Exploring and acquiring knowledge of students about the possibilities of using different analog and digital data sources to improve the content of a digital atlas of Bosnia and Herzegovina; - Exploring and acquiring knowledge of students about the possibilities of using thematic sets of digital database of digital atlas of Bosnia and Herzegovina in the development of regional and spatial planning at different levels of planning. | | | | |
| SUBJECT CONTENT | | | | | |
| # | Teaching units | Contact hours | | | |
| | | L | P | S | C |
| 1 | Digital thematic data sets - concept, definition and importance. The methodological concept of the organization and the types of digital thematic sets. The importance of digital thematic datasets for regional and spatial planning. | 1 | | | |
| 2 | Digital Atlas of Bosnia and Herzegovina - concept, origin and development. The methodological concept of the organization and structure of a digital atlas of Bosnia and Herzegovina. The importance and use of digital atlas of Bosnia and Herzegovina in regional and spatial planning. | 1 | 1 | | 1 |
| 3 | The methodological concept of the organization and structure of geology and geomorphology geodatabase of Bosnia and Herzegovina. Practical individual work of students on entering and editing data. | 1 | 1 | | 1 |
| 4 | The methodological concept of the organization and structure of climatic and hydrological geodatabase of Bosnia and Herzegovina. Practical individual work of students on entering and editing data. | 1 | 1 | | 1 |
| 5 | The methodological concept of the organization and structure of the pedology-biogeographic geodatabase of Bosnia and Herzegovina. Practical individual work of students on entering and editing data. | 1 | 1 | | 1 |
| 6 | The methodological concept of the organization and structure of the geodatabase of natural, cultural and historical heritage of Bosnia and Herzegovina. Practical individual work of students on entering and editing data. | 1 | 1 | | |
| 7 | The methodological concept of the organization and structure of the demographic geodatabase of Bosnia and Herzegovina. Practical individual work of students on entering and editing data. | 1 | 1 | 1 | |
| 8 | The methodological concept of the organization and structure of the geodatabase of populated areas of Bosnia and Herzegovina. Practical individual work of students on entering and editing data. | 1 | 1 | 1 | 1 |

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|----|--|---|---|---|--|
| 9 | The methodological concept of the organization and structure traffic-geographical geodatabase of Bosnia and Herzegovina. Practical individual work of students on entering and editing data. | 1 | 1 | | |
| 10 | The methodological concept of the organization and structure of economy-geographical geodatabase of Bosnia and Herzegovina. Practical individual work of students on entering and editing data. | 1 | 2 | 1 | |
| 11 | The methodological concept of the organization and structure of the geo-ecological geodatabase of Bosnia and Herzegovina. Practical individual work of students on entering and editing data. | 1 | 2 | 1 | |
| 12 | The methodological concept of the organization and structure of turismology geodatabase of Bosnia and Herzegovina. Practical individual work of students on entering and editing data. | 1 | 1 | 1 | |
| 13 | The methodological concept of the organization and structure of regional-geographical geodatabase of Bosnia and Herzegovina. Practical individual work of students on entering and editing data. | 1 | 1 | | |
| 14 | The methodological concept of the organization and structure of historical-geographical geodatabase of Bosnia and Herzegovina. Practical individual work of students on entering and editing data. | 1 | 1 | | |
| 15 | Synthesis of practical individual student work on entering and editing data | 1 | | | |

STUDENT WORKLOAD (HOURS)

| | | | | | | | |
|----------------------|----|----------------|---|---------------|---|-----------------|----|
| Contact Hours (L+P) | 30 | Practical work | 5 | Seminars | 5 | Exam study time | 5 |
| Literature – reading | - | Written papers | - | Other (state) | 5 | TOTAL | 50 |

| LITERATURE | EVALUATION OF KNOWLEDGE AND CRITERIA | | | |
|---|--------------------------------------|---|----------------|----|
| <p style="text-align: center;">- BASIC LITERATURE</p> <p>1. Heywod, I., Cornelius, S. And Carver, S.(1998): An Introducion to Geographical Informatio Systems. Pearson Education Inc. New York.</p> <p>2. Walford, N. (1995): Geographical Data Analysis. School of Geography, Kingston University UK,.</p> <p>3. Malone, L., Palmer A.M., i Voigt, C.L.(2003): Mapping Our World, GIS Lessons for Educators. ESRI Press, Redlands, California, USA.</p> <p>4. Getting to Know Arc View GIS. GeoInformation. International. Environmental System Research - Institute. New York, 1997.</p> | PARAMETERS | Maximum Points | Minimum points | |
| | 1. | Attendance | 5 | 3 |
| | 2. | Participation on lectures - Synthesis of practical individual student work on entering and editing data | 10 | 6 |
| | 3. | Midterm exams | | |
| | 4. | Seminar | | |
| | 5. | Students project | | |
| | 6. | Final exam | 85 | 46 |
| | Total | | 100 | 55 |