

## DEPARTMENT OF GEOGRAPHY

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### ABOUT US:

Department of Geography was established in 1994 as a part of Faculty of Philosophy of the University of Split and from 2003 it became a part of the renewed University of Zadar. Since the academic year 2005/2006 the Department of Geography offers two undergraduate and graduate programs adjusted according Bologna process. In 2016/2017 the Department has started with two new undergraduate and graduate programs; Double-major Undergraduate University Study Programme of Geography and Single-major Undergraduate University

Study Programme of Applied Geography. Double-major Graduate University Study Programme of Geography: Teaching Program and Single-Major Graduate University Study Programme of Applied Geography (with 2 modules: Geographical space modelling and Geographical aspects of coastal zone management). Since the academic year 2010/2011 the Department has been organizing a new postgraduate program entitled *Adriatic - A Link Between Continents*. The study is jointly organized by the Department of Geography and the History Department of the University of Zadar.

### **Single-major Undergraduate University Study Programme of Applied Geography**

Within this programme the students shall acquire specific education in applied geography. Thereby they shall acquire a balanced ratio of knowledge, skills and competences, related to new trends on the employment market, and in economy. Students who graduate from the single-major undergraduate university study of applied geography can find employment in spatial planning jobs, GIS analysis, and similar in state owned companies such as the Office for Spatial planning, the Croatian Bureau of Statistics, the National Protection and Rescue Directorate, county and city administrations, tourist boards, nature parks, national parks and similar institutions or, for example, in private companies specialized in different jobs in the domain of GIS analysis or different forms of spatial management.

### **Double-major Undergraduate University Study Programme of Geography**

Within this programme, along with specific knowledge in the field of geography, the students shall also acquire necessary teaching competences, i.e. theoretic and practical pedagogic and methodologic knowledge and skills. Thereby they shall acquire a balanced ratio of knowledge and skills, i.e. competences, related to new trends on the employment market, i.e. in the society and economy, acquiring competences based on which they will be able to work as teachers in primary and secondary schools.

### **Single-Major Graduate University Study Programme of Applied Geography**

Within this programme the students shall acquire specific education in applied geography. Thereby they shall acquire a balanced ratio of knowledge and skills, i.e. competences, related to new trends in the society and economy. The programme content especially emphasises the development of the ability to think logically, the interdisciplinary approach and solving open issues of activities (case study) by applying theoretic starting points and using modern analytic methods, harmonized with global social and economic tendencies manifested in changes of spatial systems in the Republic of Croatia. By completing the study, students acquire the ability of engaging independently in scientific work and solving complex problems in the field and branch of their research. Students who graduate from the single-major graduate university study of applied geography can find employment in the jobs of spatial planning, GIS analysis, and similar, in state-owned companies such as the Office for Spatial Planning, Croatian Bureau of Statistics, the National Protection and Rescue Directorate, county and city administrations, tourist boards, in nature and national parks, and similar institutions, or for example in private companies specialized in various activities in the field of GIS analysis, preparation of spatial applications or various forms of spatial management.

### **Double-major Graduate University Study Programme of Geography: Teaching Program**

Within this programme, along with specific knowledge in the field of geography, the students shall also acquire necessary teaching competences, i.e. theoretic and practical pedagogic and methodologic knowledge and skills. Thereby they shall acquire a balanced ratio of knowledge

and skills, i.e. competences, related to new trends on the employment market, i.e. in the society and economy, acquiring competences based on which they will be able to work as teachers in primary and secondary schools. The programme content emphasises the development of logical thinking, interdisciplinary approach and application of theoretic starting points and use of modern teaching methods, harmonized with global guidelines and requirements in the Republic of Croatia, especially with national pedagogic standards of primary and secondary education system.

## STUDY PROGRAMMES

### **Single-major Undergraduate University Study Programme of Applied Geography**

**Duration of the study:** 6 semesters (full-time study)

**Admission requirements:** Passed national secondary school leaving examination or admission procedure

**Competencies acquired upon finishing the study programme:**

- Show knowledge and understanding of basic terms, principles and theories in geography
- Recognize physical and geographic elements of space
- Interpret the contents and results of geological research for the needs of geography
- Demonstrate understanding of different changes in the environment
- Demonstrate understanding of different changes in the human society
- Identify social and geographic processes
- Connect the physical basis of the space with social and economic processes
- Collect and process statistical and spatial data
- Analyse and correlate visualize statistical and spatial data
- Graphically visualize statistical and spatial data
- Prepare maps based on different spatial data with modern geospatial technologies (GIS)
- Present results of own analysis in written form and orally
- Interpret economic and demographic statistical data and connect them with social and geographic development of space
- Interpret cartographic presentations
- Analyse geographic aspects of maps as sources for geographic study and geographic means of expression
- Demonstrate and apply knowledge and understanding regarding the shape and dimensions of Earth, movements of Earth and orientation in space and time
- Integrate knowledge from mathematical geography with other relevant and interconnected geography disciplines (cartography, geomorphology, climatology, hydrogeography)
- Study cartographic sources and on that basis analyse historic and geographic processes and cartographic methods in geography
- Explain the cause and consequence relations between individual phenomena and processes in space
- Apply acquired knowledge in physical, social, applied and regional geography in teaching geography

- Explain manners of managing natural resources
- Interpret geographic data from different sources, and based on analysis adopt relevant independent conclusions
- Recognize the impact of social processes on the changes of space use during certain historic development
- Explain manners of protecting natural and social resources
- Apply in practice the principles of scientific research work
- Use literature in foreign language for the needs of research

**Professional title acquired upon finishing the study programme:**

Bachelor of Science in Geography

**Course list by semesters:**

I SEMESTER	Status	Hours per week			ECTS
		L	S	E	
Introduction to geography	R	45	0	15	5
Mathematical geography	R	30	0	15	4
Fundamentals of geology I	R	45	0	15	5
Hydrogeography I	R	30	0	15	4
Geoinformatics	R	15	0	30	4
Introduction to scientific research	R	30	0	0	3
Multimedia geography	R	15	0	30	4
Foreign language					2
<b>II SEMESTER</b>					
Cartography I	R	30	15	0	4
Fundamentals of geology II	R	45	0	15	5
Hydrogeography II	R	30	0	15	4
Graphical methods in geography	R	0	0	45	4
Quantitative methods in geography I	R	15	0	30	4
Biogeography and ecology	R	30	0	15	4
Fieldwork I	R	30			2
Foreign language	R				2
<b>III SEMESTER</b>					
Climatology I	R	30	0	15	4
Cartography II	R	30	0	15	4
Demography I	R	30	15	15	5
Geomorphology I	R	30	0	15	4
English language in geography I	R	0	0	30	2
Quantitative methods in geography II	R	30	0	30	5
Introduction to economic geography	E	30	15	0	4
Regional geography of Asia	E	30	15	0	4
Regional geography of North America	E	30	15	0	4

Regional geography of Russia	E	30	15	0	4
Foreign language					2
<b>IV SEMESTER</b>					
Climatology II	R	30	0	15	4
Demography II	R	30	15	15	4
Geomorphology II	R	30	0	15	4
Agricultural and rural geography	R	30	0	15	4
Geographic information systems I	R	15	0	30	4
English language in geography II	R	0	0	30	2
Fieldwork II	R	40			3
Regional geography of Australia, Oceania and Antarctica	E	30	15	0	4
Regional geography of Africa	E	30	15	0	4
Industrial geography	E	30	15	0	4
Foreign language	R				2
<b>V SEMESTER</b>					
Urban geography I	R	30	15	0	4
Tourism geography	R	30	15	0	4
Political geography I	R	30	15	0	4
Regional geography of Croatia I	R	30	15	0	4
Geographic information systems II	R	15	0	30	4
Historical geography	R	30	15	0	4
Regional geography of Europe	E	30	15	0	4
Regional geography of Latin America	E	30	15	0	4
Geography of religions	E	15	30	0	4
Croatian diaspora	E	30	15	0	4
Pedogeography	E	15	0	30	4
Foreign language	R				2
<b>VI SEMESTER</b>					
Urban geography II	R	30	15	0	4
Transport geography	R	30	15	0	4
Maritime geography	R	30	15	0	4
Regional geography of Croatia II	R	30	15	0	4
Political geography II	R	30	15	0	4
Fieldwork III	R	40			3
Final exam	R			15	1
Geography of natural hazards	E	30	15	0	4
Geography of family	E	15	30	0	4
Cartography and visualization	E	15	0	30	4
Cultural geography	E	30	15	0	4

Medical geography	E	15	30	0	2
Foreign language	R				2

## Double-major Undergraduate University Study Programme of Geography

**Duration of the study:** 6 semesters (full-time study)

**Admission requirements:** Passed national secondary school leaving examination or admission procedure

**Competencies acquired upon finishing the study programme:**

- Show knowledge and understanding of basic terms, principles and theories in geography
- Recognize physical and geographic elements of space
- Demonstrate understanding of different changes in the environment
- Demonstrate understanding of different changes in the human society
- Identify social and geographic processes
- Connect the physical basis of the space with social and economic processes
- Collect and process statistical and spatial data
- Analyse and correlate visualize statistical and spatial data
- Graphically visualize statistical and spatial data
- Analyse geographic aspects of maps as sources for geographic study and geographic means of expression
- Demonstrate and apply knowledge and understanding regarding the shape and dimensions of Earth, movements of Earth and orientation in space and time
- Integrate knowledge from mathematical geography with other relevant and interconnected geography disciplines (cartography, geomorphology, climatology, hydrogeography)
- Study cartographic sources and on that basis analyse historic and geographic processes and cartographic methods in geography
- Interpret economic and demographic statistical data and connect them with the social and geographic development of space with modern geo-spatial technologies
- Explain the cause and consequence relations between individual phenomena and processes in space
- Apply acquired knowledge in physical, social, applied and regional geography in teaching geography
- Explain natural and geographic characteristics of individual continents and regions of the world
- Explain social, economic and geopolitical process and changes in certain regions of the world
- Establish similarities and differences between certain countries in the world in connection with their natural and socio-geographic characteristics
- Present results of analysis of certain issues in written form, and orally
- Apply in practice the principles of scientific research work

**Professional title acquired upon finishing the study programme:** Bachelor of Science in Geography

**Course list by semesters:**

I SEMESTER	Status	Hours per week			ECTS
		L	S	E	
Introduction to geography	R	45	0	0	3
Mathematical geography	R	30	0	15	4
Fundamentals of geology I	R	45	0	15	5
Hydrogeography I	R	30	0	0	2
Geoinformatics	R	15	0	30	4
Introduction to scientific research	R	30	0	0	3
<b>II SEMESTER</b>					
Cartography I	R	30	0	0	2
Fundamentals of geology II	R	45	0	15	5
Hydrogeography II	R	30	0	0	2
Graphical methods in geography	R	0	0	30	2
Quantitative methods in geography I	R	15	0	15	2
Biogeography and ecology	R	30	0	15	4
Fieldwork I	R	30			2
<b>III SEMESTER</b>					
Climatology I	R	15	0	15	2
Cartography II	R	30	0	15	2
Demography I	R	30	0	15	3
Geomorphology I	R	30	0	0	2
Regional geography of Asia	R	30	0	0	2
Regional geography of North America	R	30	0	0	2
Quantitative methods in geography II	E	30	0	15	3
Introduction to economic geography	E	30	0	0	3
Regional geography of Russia	E	30	0	0	3
<b>IV SEMESTER</b>					
Climatology II	R	30	0	0	2
Demography II	R	30	0	15	3
Geomorphology II	R	30	0	0	2
Fieldwork II	R	40			3
Regional geography of Australia, Oceania and Antarctica	R	30	0	0	2
Regional geography of Africa	R	30	0	0	2
Agricultural and rural geography	E	30	0	0	2
Geographic information systems I	E	15	0	15	2
Industrial geography	E	30	0	0	2
<b>V SEMESTER</b>					
Urban geography I	R	30	0	0	2
Tourist geography	R	30	0	0	2



Political geography I	R	30	0	0	2
Regional geography of Croatia I	R	30	0	0	2
Regional geography of Latin America	R	30	0	0	2
Regional geography of Europe	R	30	0	0	2
Historical geography	E	30	0	0	2
Geographic information systems II	E	15	0	15	2
Geography of religions	E	15	15	0	2
Croatian diaspora	E	30	0	0	2
<b>VI SEMESTER</b>					
Urban geography II	R	30	0	0	2
Transport geography	R	30	0	0	2
Maritime geography	R	30	0	0	2
Regional geography of Croatia II	R	30	0	0	2
Political geography II	R	30	0	0	2
Fieldwork III	R	40			3
Final exam	R	0	0	15	2
Geography of natural hazards	E	30	0	0	2
Geography of family	E	15	15	0	2
Cartography and visualization	E	15	0	15	2
Cultural geography	E	30	0	0	2
Medical geography	E	30	0	0	2

## Single-Major Graduate University Study Programme of Applied Geography

**Duration of the study:** 4 semesters

**Admission requirements:** Completed undergraduate study programme of geography or a related study programme with passing differential exams.

**Competencies acquired upon finishing the study programme:**

- Apply key geographic concepts in practical applications in different situations
- Demonstrate understanding of different techniques and approaches in collecting spatial information
- Designing and implementing independent research of specific geographic issues
- Analyse spatial data and manage spatial data using geographic information systems (GIS)
- Critically interpret different maps as sources of geographic data
- Prepare topical maps as geographic means of expression
- Classify individual types of relief and correlate them with the optimal use of space
- Propose possible scenarios of the development of space based on analysis of natural-geographic and socio-geographic characteristics of space
- Formulate problem issues when studying different geographic topics
- Synthetize research results
- Apply acquired geographic knowledge in the physical and social geography in practical work
- Analyse certain geographic issues

- Discuss the results of scientific research work
- Formulate procedures and the course of scientific research work
- Critically judge data sources and bibliography in the course of scientific research work
- Present the results of own research
- Classify developmental potentials of certain areas
- Argue the justifiability of certain scientific research methods when analysing and planning space
- Prepare basic geographic models, for different geographic analysis and spatial modelling

**Professional title acquired upon finishing the study programme:** Master of Science in Geography

**Course list by semesters:**

Module	I SEMESTER	Status	Hours per week			ECTS
			L	S	E	
Geographical space modelling	Modelling spatial data in GIS I	R	30	0	30	5
	Geographical landscape analysis	R	15	0	30	4
	Geographical aspects of coastal zone management	R	30	15	0	4
	Fundamentals of oceanology	R	30	0	15	4
	Scientific research methods in geography I	R	30	0	0	4
Geographical aspects of coastal zone management	Geographical aspects of coastal zone management	R	30	15	0	4
	Geography of Croatian Islands	R	15	30	0	4
	Geoecology	R	30	0	15	4
	Fundamentals of oceanology	R	30	0	15	4
	Scientific research methods in geography I	R	30	0	0	2
Geographical space modelling	Tourism and spatial resources in Croatia	E	30	15	0	4
	Teaching methods in geography I	E	30	0	15	4
	Geoecology	E	30	0	15	4
	Geography of Croatian Islands	E	15	30	0	4
	Inclusive education	E	30	15	0	4
Geographical aspects of coastal zone management	Tourism and spatial resources in Croatia	E	30	15	0	4
	Geographical landscape analysis	E	15	0	30	4
	Modelling spatial data in GIS I	E	30	0	30	5
	Teaching methods in geography I	E	30	0	15	4
	Inclusive education	E	30	15	0	4
	<b>II SEMESTER</b>					
Geographical space modelling	Geographical aspects of regionalisation and spatial planning	R	30	15	0	4
	Spatial analyses in GIS	R	15	15	30	5
	Remote sensing	R	30	0	15	4
	Scientific research methods in geography II	R	0	30	0	3
	Fieldwork	R	40			3
Geographical	Geography of the Adriatic	R	30	15	0	4

aspects of coastal zone management	Geographical aspects of regionalisation and spatial planning	R	30	15	0	4
	Spatial analyses in GIS	R	15	0	30	4
	Karst geography	R	30	0	15	4
	Teaching methods in geography II	R	0	30	0	3
	Fieldwork			40		3
Geographical space modelling	Geography of the Adriatic	E	30	15	0	4
	Karst geography	E	30	0	15	4
	Transport geography and tourism development	E	30	15	0	4
	Applied statistics in geography	E	15	0	30	4
	Teaching methods in geography II	E	30	0	15	4
Geographical aspects of coastal zone management	Remote sensing	E	30	0	15	4
	Transport geography and tourism development	E	30	15	0	4
	Applied statistics in geography	E	15	0	30	4
	Teaching methods in geography II	E	30	0	15	4
	<b>III SEMESTER</b>					
Geographical space modelling	Natural-geographic aspects of environment changes	R	30	15	0	4
	Modelling spatial data in GIS II	R	30	0	30	5
	Sustainable development and coastal zone management	R	30	15	0	4
	Professional practice	R	0	0	45	4
	Fieldwork	R		40		2
	Diploma thesis seminar	R	0	30	0	2
Geographical aspects of coastal zone management	Applied geocology	R	30	0	15	4
	Sustainable development and coastal zone management	R	30	15	0	4
	Natural-geographic aspect of environment changes	R	30	15	0	4
	Modelling spatial data in GIS II	E	30	0	30	5
	Teaching methods in geography III	E	0	0	45	4
	Diploma thesis seminar	R	0	30	0	2
Geographical space modelling	Space management and disaster risk reduction	E	30	15	0	4
	Geographical approach to cultural heritage valorisation	E	15	30	0	4
	Applied geocology	E	30	0	15	4
	Demographic spatial resources	E	30	15	0	4
	Professional practice	E		45		4
	Geographical extracurricular activities	E	15	30	0	4
Geographical aspects of coastal zone management	Space management and disaster risk reduction	E	30	15	0	4
	Geographical approach to cultural heritage valorisation	E	15	30	0	4
	Demographic spatial resources	E	30	15	0	4
	Teaching methods in geography III	E	0	0	45	4

	Geographical extracurricular activities	E	15	30	0	4
	<b>IV SEMESTER</b>					
Geographical space modelling	Diploma thesis	R	0	0	150	30
Geographical aspects of coastal zone management	Diploma thesis	R	0	0	150	30

## Double-major Graduate University Study Programme of Geography: Teaching Program

**Duration of the study:** 4 semesters

**Admission requirements:** Completed undergraduate study programme of geography or a related study programme with passing differential exams.

**Competencies acquired upon finishing the study programme:**

Demonstrate acquired knowledge in physical, social, applied and regional geography in teaching geography at primary and secondary school level

Demonstrate knowledge in the methodology of teaching geography in primary and secondary school

Demonstrate acquired methodological and pedagogical knowledge in working with students with specific learning disabilities

Organize geographic extracurricular and out-of-school activities

Identify causes and consequences of certain natural geographical and socio-geographical changes

Analyse certain geographical issues with modern geospatial technologies (GIS)

Discuss the results of scientific research work

Formulate procedures and the course of scientific research work

Critically judge data sources and bibliography in the course of scientific research work

Present the results of own research

Compare natural-geographical and socio-geographical potential of certain areas

Analyse spatial data and manage spatial data using geographic information systems (GIS)

Argument the justifiability of using certain scientific research methods when analysing and planning space

Classify developmental potential of certain areas

**Professional title acquired upon finishing the study programme:** Master of Arts in Geography Education

**Course list by semesters:**

I SEMESTER	Status	Hours per week			ECTS
		L	S	E	
Teaching methods in geography I	R	30	0	15	4

Scientific research methods in geography I	R	30	0	0	2
Inclusive education	R	30	15	0	4
Geoecology	E	30	0	0	2
Geographical aspects of coastal zone management	E	30	0	0	2
Tourism and spatial resources in Croatia	E	30	0	0	2
Geography of Croatian Islands	E	15	15	0	2
Modelling spatial data in GIS I	E	15	0	15	2
Fundamentals of oceanology	E	30	0	15	4
Geographical landscape analysis	E	15	0	15	2
Courses for acquiring teaching competencies	R				5
<b>II SEMESTER</b>					
Teaching methods in geography II	R	30	0	15	4
Scientific research methods in geography II	R	15	30	0	4
Fieldwork	R		40		3
Geography of the Adriatic	E	30	0	0	2
Geographical aspects of regionalisation and spatial planning	E	30	0	0	2
Spatial analyses in GIS	E	30	0	0	2
Karst geography	E	15	0	15	2
Remote sensing	E	15	0	15	2
Transport geography and tourism development	E	30	0	0	2
Applied statistics in geography	E	15	0	15	2
<b>III SEMESTER</b>					
Teaching methods in geography III	R	0	0	45	4
Geographical extracurricular activities	R	15	30	0	4
Diploma thesis seminar	R	0	30	0	2
Natural-geographic aspect of environment changes	E	30	0	0	2
Space management and disaster risk reduction	E	30	0	0	2
Geographical approach to cultural heritage valorisation	E	15	15	0	2
Applied geoecology	E	30	0	0	2
Modelling spatial data in GIS II	E	15	0	15	2
Demographic spatial resources	E	30	0	0	2
<b>IV SEMESTER</b>					
Diploma thesis	R	0	0	75	15