

Welcome, Visitor!

As Faculty of Earth Sciences and Spatial Management, we offer education on our five main faculties:

geography, tourism and recreation, tourism management, geoinformatics and spatial management.

We have plenty of courses offered in English for Erasmus+ students:

| | Subject | ECTS | Semester | Other information | Hours | Lecturer |
|---|---|------|----------|--|---|---|
| 1 | Geology and geomorphology | 9 | winter | <u>Outline:</u> The subject includes knowledge of the construction of the Earth and the natural processes occurring deeply inside and on the surface of the Earth. It contains characteristics of the Earth's surface forms of various origin and educates in the ability to recognize essential minerals and rocks and geomorphological forms emerging in different climatic zones. The subject outlines the impact of human activities on the surface relief | 40 lectures, 40 conversatories, 40 laboratories | Dr Małgorzata Telecka, Prof. dr hab. Wojciech Zgłobicki |
| 2 | Meteorology and hydrology in practice, part I | 4 | winter | <u>Outline:</u> The subject includes lectures on physics of the atmosphere and water management with the elements of the law. The main objective is: to present the specifics of the processes occurring in the atmosphere and to use the meteorological and climatological knowledge in a practice of human activity as well as to outline the possibility of water resources usage | 60 lectures 60 conversatories | Dr. Agnieszka Krzyżewska Sr. Sylwester Wereski Dr. Katarzyna Mięsiak-Wójcik Dr hab. Stanisław Chmiel |
| 3 | Biogeography and environment protection | 3 | winter | <u>Outline:</u> The subject covers the issues and characteristics of the spatial distribution of biomes on the planet, phyto- and zoogeographic regions. Basic types of zonal and azonal vegetation are characterized as well as changes in the flora and fauna during the Cenozoic. Issues of biodiversity, sustainable | 20 lectures 20 conversatories | Prof. dr. hab. Irena Pidek |

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| | | | | development and global environmental problems are discussed. Forms of nature protection – both in national and international scales are presented. | | |
| 4 | Geomorphology - fieldwork | 2 | spring | <u>Outline:</u> Fieldwork in the geomorphology are intended to familiarize students with the dominant elements of surface relief in the Lublin region. Presented are also the processes shaping the individual elements of the relief including the factors determining their intensity | 32 fieldwork classes | Dr Jan Reder |
| 5 | Meteorology and hydrology in practice part II | 7 | spring | <u>Outline:</u> The classes include issues of synoptic meteorology and applied climatology, documentation of groundwater resources, hydrochemistry in environmental studies and natural basis of melioration. | 60 lectures 60 classes | Dr. Agnieszka Krzyżewska Dr. Katarzyna Mięsiak-Wójcik Dr Sylwester Wereski Dr hab. Stanisław Chmiel |
| 6 | Pedology (soil science) – fieldwork | 3 | spring | <u>Outline:</u> Fieldwork of soil science aims at digging up soil pits and making the description of the soil layers, which leads to its classification and / or grading with particular emphasis on the geological structure, relief, water relations, vegetation and forms of land use. | 32 fieldwork classes | Dr Jacek Chodorowski |
| 7 | Geographical regions of Poland - field exercises - Pomorze | 6 | spring | <u>Outline:</u> Fieldwork in the Kashubian Lake District, and in the Embankment of Gdansk and Koszalin familiarize the student with the guiding characteristics of the geographical environment of macro-regions and their basic functions in the past and present. They demonstrate how human activities are related to the components of the geographical environment and nature conservation. | 48 fieldwork classes | Prof. dr hab. Radosław Dobrowolski, prof. dr hab. Sławomir Terpiłowski |
| 8 | Geographical regions of Poland - field exercises – Bieszczady or Tatry mountains | 4 | spring | <u>Outline:</u> Field exercises in Bieszczady or Tatry familiarize student with the leading features of the geographical environment and the basic functions of the region. During fieldwork, students learn about geology, geomorphology, hydrology, climatology, environmental | 48 fieldwork classes | Dr Sylwester Wereski/ Dr Jan Reder |

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| | | | | protection, history and cultural heritage as well as the settlement and economy of that part of Poland. | | |
| 9 | Geographical regions of Poland - field exercises – Świętokrzyskie mountains | 2 | spring | <u>Outline:</u> Field exercises in Świętokrzyskie mountains familiarize student with the leading features of the geographical environment and the basic functions of the region. During fieldwork, students learn about geology, geomorphology, hydrology, climatology, environmental protection, history and cultural heritage as well as the settlement and economy of that part of Poland | 24 fieldwork classes | Dr Renata Kołodyńska - Gawrysiak |
| 10 | Basics of tourism | 3 | winter | <u>Outline:</u> This subject helps students to understand tourism by providing them the basic definitions and concepts in tourism. Students will have knowledge about history of tourism development and various types of tourism. Also the important part of subject are tourism functions and issues of its positive and negative impacts. Other topics within the subject are related to tourism economy (international tourist arrivals and receipts by UNWTO regions, ICT in tourism – social media). | 30 lectures | Dr Renata Krukowska, Dr Andrzej Tucki |
| 11 | Information technology in tourism | 3 | winter | <u>Outline:</u> The students will develop their skills with computer graphics (GIMP), group work with google documents, website creation (google sites), create virtual tours (Google Earth), edit documents and mail merge in Microsoft Word, calculate travel costs with basic functions and pivot tables in Microsoft Excel, create tourist offers with booking networks and sites. | 5 lectures, 25 laboratories | Dr Agnieszka Krzyżewska, Dr Sylwester Wereski |
| 12 | Abiotic resources in tourism | 6 | winter | <u>Outline:</u> This classes focus on climate resources (like spa towns, bioclimatology, extreme events), hydrological resources (oceans, rivers, lakes), geological resources (mountains, geoparks) in tourism. Students can | 30 lectures, 30 conversatories | Dr Agnieszka Krzyżewska, Dr Katarzyna Mięsiak-Wójcik, Dr Małgorzata Telecka, Dr Sylwester Wereski |

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| | | | | observe those resources during fieldwork. | | |
| 13 | Biotic resources in tourism | 6 | winter | <u>Outline:</u> The course introduce students to most popular tourist natural resources, like botanical gardens, forests, national parks. | 30 lectures, 30 conversatories | Prof. dr hab. Ryszard Dębicki, Prof. dr. hab. Irena Pidek Dr Magdalena Suchora, |
| 14 | Cultural tourism | 6 | winter | <u>Outline:</u> This course introduce students the concept of cultural tourism, which is traveler's engagement with a country or region's culture, specifically the lifestyle of the people in those geographical areas, the history of those people, their art, architecture, religion(s), and other elements that helped shape their way of life. | 45 lectures, 15 conversatories | Prof. dr hab. Anna Dłużewska Prof. dr hab. Wojciech Ziętara, |
| 15 | Client and customers service | 5 | spring | <u>Outline:</u> The course will develop communication skills in different business activities including business etiquette, intercultural communication, negotiation and persuasion. Students will learn how to prepare business correspondence, presentations in formal meetings. Students can develop their teamwork power and custom service skills | 15 lectures, 45 conversatories | Prof. dr hab. Anna Dłużewska, Dr Joanna Bielecka-Prus, Dr hab. Andrzej Kapusta, Dr Andrzej Tucki |
| 16 | Reservation systems | 3 | spring | <u>Outline:</u> Through our classes, students learn how to operate computer reservation systems, and they study the various types of travelers, transportation systems and vacations available all over the world. The classes include an element of marketing, which shows students the methods used to direct clients to particular destinations. Students examine available transportation options and study the cost of the different activities, including tours, flights and cruises, which can help clients choose destinations that match their travel goals and their budgets. Students become familiar with the ins and outs of the industry, including high and low travel dates and the best time to travel to various locations, as well as how this affects prices and sales. The classes are offered through | 30 laboratories | Mgr Monika Widz |

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| | | | | reservations systems like MerlinX (one of the most popular, national systems used in the industry), Euroticket, Voyager and etc. | | |
| 17 | Global and local challenges in tourism | 4 | winter | | 30 lectures, 30 conversatories | Dr Bartosz Bojarczyk |
| 18 | Tourist services and facilities | 5 | spring | Outline: The general purpose is that the students at the end of the course will have gained knowledge about the tourism and hospitality sector, and of tourism and hospitality development and management. The topics cover introduction to tourism and hospitality, the main concepts and tourism system, the hospitality business from a service management perspective and the accommodation and other tourist facilities. Development and types of tourist services in a different types of tourist space: urban, rural, attractions. | 15 lectures, 30 conversatories | Dr Andrzej Tucki |
| 19 | Ethics and Law in Tourism | 5 | spring | <u>Outline:</u> This course will introduce students to the laws and ethical standards that managers must abide by in tourism management. By the end of this unit students will have a clear understanding of the legal and ethical environment in which tourism management operates. | 30 lectures, 30 conversatories | Dr hab. Andrzej Kapusta, Dr hab. Piotr Tosiek, Dr Waldemar Bulira, |
| 20 | Study tour (workshops) | 4 | spring | <u>Outline:</u> Students will be able to know interdisciplinary nature of the tourism and hospitality industry and tourist destinations. The main goal of this workshop is getting to know history, culture, architecture and nature values of selected region of Poland. Participants will learn to recognize opportunities and threats for the development of tourism. An important issue is also getting knowledge about organizing and conducting excursions in relation practical experiences. | 40 field excercises | Dr Renata Krukowska |

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| 21 | Tourism trade fair (Tourist events) | 3 | Spring or winter | <u>Outline:</u> The main purpose of this subject is the possibility of participation in one of the most important forms of tourism promotion and the way to advertise to a target market. Trade fairs create a possibility to know a variety of disciplines, either directly or indirectly related to tourism industry. This is great opportunity to meet people involved in tourism industry and also to develop communication skills. | 24 field excercises | Dr Andrzej Tucki Dr Renata Krukowska |
| 22 | Extreme events and their influence on tourism | 4 | winter or spring | <u>Outline:</u> Extreme event definition. Extreme events (hurricanes, tornadoes, heat and cold waves, heavy rains, windstorms, extreme biometeorological events, floods, avalanches, tsunami, storms, droughts, catastrophes of tank ships and drilling platforms, collapses of dams) and their influence on human health and tourism industry. Methods of forecasting extreme events. Selected case studies of extreme events and their aftermath. | 15 lectures 15 conversatories | Dr Agnieszka Krzyżewska, Dr Katarzyna Mięsiak-Wójcik, Dr Joanna Sposób, Dr Sylwester Wereski |
| 23 | How to understand and use weather forecasts | 2 | winter or spring | <u>Outline:</u> All human activities depend on weather. It affects economy, agriculture, sport, aviation and our life. Hence weather prediction helps us to handle all unexpected outcomes of quickly changeable weather conditions. The question is where good weather forecast can be found. The main task of the lecture is to understand how weather forecast is prepared, what is its essence and composition and how to form forecast for specific purposes. | 15 workshops | Mgr Grzegorz Kołodziej |
| 24 | Natural heritage of Poland | 4 | winter or spring | <u>Outline:</u> Outline of the main features of natural environment of Poland important from the point of view of tourism and recreation. An overview of native vegetation preserved in Polish national parks and NATURA 2000 areas. Natural environment of the Lublin region against the background of the whole country. Transboundary protected areas of Eastern | 30 lectures | Prof. dr hab. Radosław Dobrowolski, Prof. dr hab. Irena Agnieszka Pidek |

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| | | | | Poland as a chance for tourism development based on natural resources | | |
| 25 | Ethnic problems of European space | 4 | winter or spring | <u>Outline:</u> Nation, ethnic group, nationality, citizenship. Legal and political aspects of recognizing ethnic groups and nations. Nationalism in the integration era. Multiple nation-states' Europe versus multiple non-nation-regions' Europe. Ethnicity and democratic rule. Right of nations to self-determination versus right of states to territorial integrity. Muslim minorities in Europe. Euroislam – pros and cons. European versus American model of managing ethnic diversity. Immigration policy in the EU. | 30 conversatories | Dr hab. Wojciech Janicki |
| 26 | Political geography | 2 | winter or spring | <u>Outline:</u> The subject includes knowledge in the field of political geography, including the concept of the state, its territory and borders, the concept of the nation and political changes in the world. | 15 lectures 15 conversatories | Dr hab. Wojciech Janicki |
| 27 | Society and development | 4 | winter or spring | <u>Outline:</u> Theories of society and social change. Subjects, determinants and mechanisms of social processes. Conceptions of progress, development and regression. Socio-cultural determinants of economic development patterns. Main contemporary social phenomena and future directions of social development (information society, e-society, social participation, social inclusion, civil society, society and the mechanization/automation). Main global social problems and challenges (demographic changes, migrations, human capital flight, poverty, social disparities, marginalization, social exclusion, human rights issue). Measures of social development, prosperity and quality of life. | 15 lectures 15 conversatories | Dr hab. Wojciech Janicki dr Andrzej Jakubowski |
| 28 | WEB GIS | 1 | winter | <u>Outline:</u> Web GIS basics and applications. Web services overview. Web Services Standards. | 30 laboratories | Mgr Mateusz Zawadzki |

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| | | | | Cloud GIS. Data management with ArcGIS Online. ArcGIS Web AppBuilder. Story maps and more web app templates. Big data, vector tiling, image services and analyses. Building Web GIS with ArcGIS for Server. Elements of Web GIS application. OpenLayers and GeoJSON. | | |
| 29 | Opensource GIS | 4 | spring | <u>Outline:</u> Data processing and various analyses using open source GIS application: GRASS GIS and SAGA-GIS. Basics of linux (Ubuntu). Management of different types of GIS data on linux platform. Data exchange between different GIS programs. Spatial analysis using vector and raster data, DEM processing. Introduction to geoprocessing models in GRASS. Graphical and text modes of work using GRASS and SAGA. | 30 laboratories 5 lectures | Dr Leszek Gawrysiak |
| 30 | Geoprocessing Models | 2 | spring | <u>Outline:</u> Geoprocessing tools to perform spatial analyst and manage GIS Data. Automatization of those tools with ModelBuilder in ArcGIS for Desktop and ArcGIS Pro. Practical issues includes: spatial data sources, introduction to geoprocessing, automation of GIS tasks, creating spatial data flow process models, edition and managing of geoprocessing models. | 30 laboratories | Mgr Paulina Owczarek |
| 31 | Advanced Spatial Analysis | 3 | winter | <u>Outline:</u> Spatial Analysis focuses on advanced aspects of spatial data analysis, including some of practical aspects of programming for GIS customization. The main issues of course are: Spatial network analysis, scaling and explanatory mechanisms. Computing geomorphometric parameters. Using GIS for hydro-geomorphic analysis. Extraction of landform parameters. DEM manipulations and hydro-geomorphological modelling. | 30 laboratories | Dr Łukasz Chabudziński |
| 32 | Remote sensing (teledetection) | 5 | winter | <u>Outline:</u> The basic physical principles of remote sensing, the basic technical principles | 30 laboratories 10 lectures | Dr Marcin Siłuch |

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| | | | | of satellites, sensors and ground segments in data collection, the properties of the available data from these systems. The principles of digital image processing and manipulation in remote sensing. Analysing digital remote sensing data. Planning and carrying out a field study to support remote sensing. choosing the right data and methodology for remote sensing, with the support of literature, in problem areas concerning soil, vegetation, water and human usage of these resources. Integrating remote sensing data with other data in geographical information systems | | |
| 33 | Low Altitude Remote Sensing (UAS) | 4 | spring | <u>Outline:</u> Sensors and platforms overview. Civilian and remote sensing applications. Sensors calibration. UAS operational requirements. UAS concept of Operation. Data processing software. Generation of digital data products such as ortho-rectified imagery and digital terrain surface. Current rules and regulations governing owning and operating a UAS in Poland. UAS safety, security and privacy issues. | 30 laboratories 10 lectures | Dr Piotr Bartmiński |

Haven't found the classes that you were looking for?

Don't worry!

There are many classes that are in Polish, but it can also be arranged in English.

Please do not hesitate to ask for help with construction learning agreement.

Just write to our Erasmus+ Coordinator:

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