

Subject card

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| Subject name and code | Water Conditions of South Baltic Coastlands and Lakelands - lecture, PG_00194286 | | | | | | |
| Field of study | Geography | | | | | | |
| Date of commencement of studies | October 2026 | Academic year of realisation of subject | | | 2028/2029 | | |
| Education level | Bachelor's studies | Subject group | | | Obligatory subject group in the field of study Optional subject group Subject group related to scientific research in the field of study | | |
| Mode of study | full-time studies | Mode of delivery | | | at the university | | |
| Year of study | 3 | Language of instruction | | | Polish | | |
| Semester of study | 6 | ECTS credits | | | 2.0 | | |
| Learning profile | academic | Assessment form | | | credit | | |
| Conducting unit | Laboratory of Limnology -> Department of Hydrology -> Faculty of Oceanography and Geography -> Rector | | | | | | |
| Name and surname of lecturer (lecturers) | Subject supervisor | | prof. dr hab. Roman Cieśliński | | | | |
| | Teachers | | | | | | |
| Lesson types | Lesson type | Lecture | Tutorial | Laboratory | Project | Seminar | SUM |
| | Number of study hours | 20.0 | 0.0 | 0.0 | 0.0 | 0.0 | 20 |
| | E-learning hours included: 0.0 | | | | | | |
| Learning activity and number of study hours | Learning activity | Participation in didactic classes included in study plan | | Participation in consultation hours | | Self-study | SUM |
| | Number of study hours | 20 | | 1.0 | | 29.0 | 50 |
| Subject objectives | Knowledge of the spatial diversity of hydrographic relations in the lake districts and coastlines of the southern Baltic Sea. Discussion of events taking place in water environment processes whose course determines and conditions the hydrography and hydrology of lake areas and shores | | | | | | |

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| Learning outcomes | Course outcome | Subject outcome | Method of verification |
| | [GEOGRL3-U05] use scientific language and express opinions and discuss topics related to geography in Polish and a foreign language | K_U05 - is able to find and select necessary information from the literature professional and other sources, including electronic sources; Program content: A1-A8. | [SU4] test/exam - oral or written |
| | [GEOGRL3-U02] use theoretical knowledge in the field of geography and available sources of information to correctly interpret basic natural, social, economic, and political processes and phenomena | K_U02 - is able to formulate and analyze basic problems regarding changes in... physical and geographical conditions; Program content: A1-A8. | [SU4] test/exam - oral or written |
| | [GEOGRL3-U01] identify and analyze basic natural and socio-economic processes and phenomena, analyze their causes and course, and formulate and discuss basic issues concerning physical-geographical conditions and the social, economic, and political situation and their changes on various spatial scales | K_U01 - the student is able to identify and analyze basic processes and phenomena natural and analyze their causes and course; Program content: A1-A8 | [SU4] test/exam - oral or written |
| | [GEOGRL3-W05] knows the interactions between the natural and anthropogenic environments on various spatial and temporal scales, with particular emphasis on the processes and phenomena occurring in the area of the South Baltic Coast and Lake District and the conditions of these interactions | K_W05 - has knowledge about the geographical environment of the Earth, understood as a uniform system of interconnected and interacting components, including the interaction of environmental components in the Coastal area and South Baltic Lake Districts; Program content: A1-A8. | [SW4] test/exam - oral or written |
| [GEOGRL3-K01] to critically assess the level of one's knowledge, use it in professional activities and, in case of difficulties, to be assisted by the knowledge of experts | K_K01 - the student is able to critically refer to the level of his/her knowledge and using it in professional activities; Program content: A1-A8. | [SK4] test/exam - oral or written | |
| Subject contents | <p>A. Topics of the lecture</p> <p>A.1 Basic definitions: water relations, components of the water cycle, natural features of coastal areas and lake districts</p> <p>A.2 Problems occurring in the sea-land contact zone (sea level rise, storm surges, water salinity, etc.)</p> <p>A.3. Characteristics of the hydrographic network and coastal waters</p> <p>A.4. Characteristics of water reservoirs: lakes, melting ponds</p> <p>A.5. Characteristics of groundwater circulation</p> <p>A.6. Marsh areas, peat bogs, coastal nature reserves dependent on water</p> <p>A.7 Areas with natural circulation and human-forced circulation.</p> <p>A.8 Quality of surface and groundwater</p> | | |
| Prerequisites and co-requisites | | | |
| Assessment methods and criteria | Subject passing criteria | Passing threshold | Percentage of the final grade |
| | exam | 51.0% | 100.0% |

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| Recommended reading | Basic literature | <p>A. Literature required to finally pass the course (pass the exam):</p> <p>A.1. used during classes</p> <p>A.2. studied independently by the student</p> <p>- Augustowski B., (ed.), 1977, Pomerania, GTN, Department V Earth Sciences, Gdańsk.</p> <p>- Augustowski B., (ed.), 1984, Pojezierze Pomorskie, GTN, Gdańsk.</p> <p>- Bajkiewicz-Grabowska E., Mikulski Z., 2002, General hydrology, PWN, Warsaw.</p> <p>- Bogdanowicz R., Fac-Beneda J., (ed.), 2009, Water resources and their protection, FRUG, Gdańsk.</p> <p>- Chelmicki W., 2002, Water. Resources, degradation, protection. Ed. Science. PWN, Warsaw.</p> |
| | Supplementary literature | <p>B. Additional literature</p> <p>- Byczkowski A., 1979, Hydrological basis of water reclamation projects, PWR i L, Warsaw.</p> <p>- Major M., Cieśliński R., 2015, Retentivity as an Indicator of the Capacity of Basins without an Outlet to Accumulate Water Surpluses, Polish Journal of Environmental Studies, vol. 24, No. 6, DOI: 10.15244/pjoes/58650</p> <p>- Major M., Cieśliński R., 2017, Impact of hydrometeorological conditions on the chemical composition of water in closed-basin kettle ponds: A comparative study of two postglacial areas, Journal of Elementology, 22 (1), 151-167</p> <p>- Olszewska A., Cieśliński R., 2017, Hydrological conditions of the transport of biogenic substances in a young glacial catchment of various types use (on the example of the Zbrzyca catchment area), Gaz, Woda i Technika Sanitarna, 1/2017 (91), 33-36.</p> <p>- Partyka J., Pociask-Karteczka J., (ed.), 2008, Waters in protected areas, IG and GP UJ, Kraków.</p> <p>- Pietruszyński Ł., Cieśliński R., 2018, The effects of different land use and hydrological types on water chemistry of young glacial ponds, Journal of Hydrology, 564, 605-618.</p> <p>- Pociask-Karteczka J. (ed.), 2003, Zlewnia. Properties and processes, Ed. Jagiellonian University, Kraków</p> |
| | eResources addresses | |
| Example issues/ example questions/ tasks being completed | | |
| Work placement | Not applicable | |

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