



Subject card

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| Subject name and code | Coastal Environment, PG_00053472 | | | | | | |
| Field of study | Spatial Development | | | | | | |
| Date of commencement of studies | February 2024 | Academic year of realisation of subject | | | 2023/2024 | | |
| Education level | second-cycle studies | Subject group | | | Obligatory subject group in the field of study 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 | 1 | Language of instruction | | | Polish | | |
| Semester of study | 1 | ECTS credits | | | 1.0 | | |
| Learning profile | general academic profile | Assessment form | | | assessment | | |
| Conducting unit | Department of Urban Design and Regional Planning -> Faculty of Architecture | | | | | | |
| Name and surname of lecturer (lecturers) | Subject supervisor | dr Miłosz Marciniak | | | | | |
| | Teachers | dr hab. inż. arch. Karolina Krośnicka | | | | | |
| Lesson types and methods of instruction | Lesson type | Lecture | Tutorial | Laboratory | Project | Seminar | SUM |
| | Number of study hours | 15.0 | 0.0 | 0.0 | 0.0 | 0.0 | 15 |
| | 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 | 15 | 1.0 | 9.0 | 25 | | |
| Subject objectives | The aim of the course is to familiarize students with the environmental conditions and determinants of urbanization and tourism development in the coastal zone, as well as the location and operation of maritime and coastal infrastructure. | | | | | | |
| Learning outcomes | Course outcome | Subject outcome | | | Method of verification | | |
| | K7_W01 | understands and describes the factors and mechanisms of development of sea areas, is able to communicate in the environment of various coastal zone users; understands and knows how to analyze phenomena and processes occurring in the marine environment and human impact on this environment | | | [SW1] Assessment of factual knowledge [SW3] Assessment of knowledge contained in written work and projects | | |
| | K7_U07 | can use the known methods to develop non-standard analyzes in the field of spatial management, can describe and explain functional and spatial conflicts in the exploitation and use of the coastal zone; can develop scenarios for the operation of boundary structures | | | [SU1] Assessment of task fulfilment [SU2] Assessment of ability to analyse information | | |
| | K7_W02 | has in-depth knowledge of spatial management, is able to explain the environmental conditions and determination of the location and operation of maritime and coastal infrastructure. | | | [SW1] Assessment of factual knowledge [SW3] Assessment of knowledge contained in written work and projects | | |

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| Subject contents | <p>Selected issue of coastal zone geology and hydrogeology. Specificity of groundwater occurrence in the coastal zone. Classification and mechanics of soils and bottom sediments. Influence of the type of bottom sediments on: possibilities of maintaining the depth of waterways in open water bodies and in the coastal zone, dredging works technologies, route selection and foundation of the offshore pipeline. Assessment of land suitability for foundation of objects in the coastal zone.</p> <p>Shore balance, debris transport in the coastal zone, debris streams, silting sand, shoreline and bottom dynamics. Forms of the sculpture of the edge and bottom of the shallow water. Types of sea shores and coasts - navigation characteristics and from the point of view of the construction and development of the port. Impact of climate change on the coastal zone.</p> <p>Identification of shoreline and coastal zone hazards (including floods and flooding, surface displacement). Protection of the sea shore and coastal environment: levees and anti-storm banks, shore reinforcements (spurs, bands, breakwaters and underwater thresholds, biotechnical cover), refutations. Examples of sea shore protection projects in Poland.</p> | | |
| Prerequisites and co-requisites | Ability to cause-effect-thinking, analysis and synthesis; knowledge of natural, social and economic determinants of spatial management gathered at previous stages of study; geographical knowledge obtained at earlier stages of education | | |
| Assessment methods and criteria | Subject passing criteria | Passing threshold | Percentage of the final grade |
| | test | 60.0% | 100.0% |
| Recommended reading | Basic literature | <p>Zasady dokumentowania geologiczno-inżynierskich warunków posadowienia obiektów budownictwa morskiego i zabezpieczeń brzegu morskiego. PIG, Warszawa, 2009.</p> <p>Pruszek Z., Brzeg morski. Procesy fizyczne obszaru płytko- i nadwodnego. Wyd. IBW PAN, 2014.</p> <p>Pruszek Z., Skaja M., Problemy dynamiki i ochrony brzegu morskiego. Wyd. IBW PAN, 2014.</p> <p>Łabuz T., Sposoby ochrony brzegów morskich i ich wpływ na środowisko przyrodnicze polskiego wybrzeża Bałtyku, Raport WWF, 2013.</p> <p>The Geography of Transport systems. Chapter 6 https://transportgeography.org/</p> | |
| | Supplementary literature | <p>Mazurkiewicz B., Encyklopedia inżynierii morskiej. Wyd. Fundacja Promocji POiGM, Gdańsk 2009.</p> <p>Dyrektywy UE, ustawy i rozporządzenia, ekspertyzy i raporty dotyczące obszarów przybrzeżnych wykonane na potrzeby KPZK i gospodarki w strefie przybrzeżnej</p> <p>Furmańczyk K. (red.), Zintegrowane Zarządzanie Obszarami Przybrzeżnymi w Polsce – stan obecny i perspektywy, tom 1 – Problemy erozji brzegu. Uniwersytet Szczeciński, 2005.</p> <p>Furmańczyk K. (red.), Zintegrowane Zarządzanie Obszarami Przybrzeżnymi w Polsce – stan obecny i perspektywy, tom 2 – Brzeg morski – zrównoważony. Uniwersytet Szczeciński, 2006.</p> <p>Monitoring i badania dotyczące aktualnego stanu brzegu morskiego - ocena skuteczności systemów ochrony brzegu morskiego realizowanych w okresie obowiązywania wieloletniego "Programu ochrony brzegów morskich". IBW PAN, Gdańsk, 2013.</p> <p>Studium nad problemami oceny skutków środowiskowo-przestrzennych eksploatacji gazu z łupków w województwie pomorskim i przyległych obszarach morskich. Problemy ocen środowiskowych, numer specjalny, 2012.</p> | |
| | eResources addresses | Adresy na platformie eNauczanie: | |

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| <p>Example issues/ example questions/ tasks being completed</p> | <p>Explain the transverse and longitudinal dislocation of sediments and their impact on the functioning of coastal infrastructure.</p> <p>Assessment of the legitimacy of cliff protection structures in Jastrzębia Góra.</p> <p>Hard and soft seashore protection systems.</p> <p>Threats to the chemical state and usable resources of aquifers in the coastal zone of the southern Baltic</p> <p>Purpose and conditions for performing dredging works.</p> <p>Spatial conflicts in the Baltic coastal zone related to shore and environmental protection.</p> |
| <p>Work placement</p> | <p>Not applicable</p> |