KAPITAŁ LUDZKI
NARODOWA STRATEGIA SPÓJNOŚCI
Projekt współfinansowany przez Unię Europejską w ramach Europejskiego Funduszu Społecznego
UNIA EUROPEJSKA
EUROPEJSKI FUNDUSZ SPOŁECZNY

Course title	ECTS code
Atmospheric pollution in the coastal zone - case study	13.8.1166

Name of unit administrating study

null

Studies

faculty	field of study		
Faculty of Oceanography and Geography	BRAK TŁUMACZENIA	type	first tier studies (BA)
		form	full-time
		specialty	all
		specialization	all
Faculty of Oceanography and Geography	Physical geography and geoinformation	type	second tier studies (MA)
		form	full-time
		specialty	all
		specialization	all
Faculty of Oceanography and Geography	Socio-economic geography with elements of GIS	type	second tier studies (MA)
		form	full-time
		specialty	all
		specialization	all
Faculty of Oceanography and Geography	Geography	type	first tier studies (BA)
		form	full-time
		specialty	all
		specialization	all
Faculty of Oceanography and Geography	Geology	type	first tier studies (BA)
		form	full-time
		specialty	all
		specialization	all
Faculty of Oceanography and Geography	Spatial Management	type	first tier studies (BA), second tier studies (MA)
		form	full-time
		specialty	all
		specialization	all
Faculty of Oceanography and Geography	Water Management and Protection of Water Resources	type	first tier studies (BA)
		form	full-time
		specialty	all
		specialization	all
Faculty of Oceanography and Geography	BRAK TŁUMACZENIA	type	first tier studies (BA)
		form	full-time
		specialty	all
		specialization	all
Faculty of Oceanography and Geography	Oceanography	type	second tier studies (MA)
		form	full-time
		specialty	all
		specialization	all

Teaching staff

prof. UG, dr hab. Anita Lewandowska

Forms of classes, the realization and number of hours

Forms of classes

Tutorial

The realization of activities

classroom instruction, online classes

Number of hours

Tutorial: 15 hours

ECTS credits

2

Contact hours: 25 Number of ECTS points: 1 - participation in the seminar: 15 - participation in the test: 5 - participation in consultations: 5 Student's own work Number of ECTS points: 1

Preparation for the test: 15 - studying literature: 5 Completing the final work: - presentation: 5

The academic cycle

2022/2023 summer semester

Type of course	Language of instruction

an elective course

english

Teaching methods

- Working in groups with the use of internet sources aimed at answering the questions contained in the discussed case study.
- discussion
- group work
- text analysis and discussion

Form and method of assessment and basic criteria for eveluation or examination requirements

Final evaluation

Course credit

Assessment methods

- assignment work – project or presentation
- Case study

Mind map

Brainstorm

The basic criteria for evaluation

At the start, students are given 120 credit points
During the course the student receives:
plus 10 points for active participation
plus 50 points for the final presentation
plus 50 points for the completeness of data and substantively properly executed presentation
plus 30 points for conclusions
minus 40 points for each absence
minus 10 points for each debate in polish
Passing requires 128 points
However standard: each element must pass 51% (attendance, presentation, conclusions)

Method of verifying required learning outcomes

zakładany efekt kształcenia	Wykład konwersatoryjny	Wykład problemowy	Praca w grupach	Dyskusja	Wykład z prezentacją multimedialną	Analiza tekstów z dyskusją
	Wiedza					
K_W01	project/presentation					
K_W06	project/presentation					
	Umiejętności					
K_U08	project/presentation					
K_U09	project/presentation					
	Kompetencje					
K_K01						

Required courses and introductory requirements

A. Formal requirements
English

B. Prerequisites
None

Aims of education

Improving the ability to acquire, analyze available data and interpret them based on the latest scientific reports.
Developing the ability to express opinions on scientific topics, supported by argumentation.

Course contents

The course will explore the recent literature highlighting various aspects of atmospheric pollution in the coastal zones e.g.:
- causes of air pollution on a local, regional and global scale,
- influence of outdoor and indoor air pollutions on people health and their quality of life in different urbanized coastal sea regions,
- health situation in urbanized coastal zones of different parts of EU,
- EU law legislations and regulations,
- possible ways to prevent air pollution

A key objective of this course is to use case study to practice how to critically evaluate and synthesize internet and published data, and to construct logical, succinct arguments based on analyses. Upon completion of this course, students will be better able to analyze scientific investigations and

their results, read and interpret a variety of graphs, diagrams, and pictures from scientific publications as well as separate facts from rhetoric opinion presented in the internet. Students will practice the ability to function efficiently in multidisciplinary teams and to communicate scientific information effectively (orally or/and in writing).

Bibliography of literature

1. Publications from scientific journals (e.g. Atmospheric Chemistry and Physics, Science of the Total Environment, Atmospheric Research, Atmospheric Environment, Environmental Pollution, Climatic Change, Maritime Engineering and Ports, Air Quality Atmosphere and Health etc.) provided by the lecturer
2. EU legal acts
3. EU air quality reports
4. Useful links:
http://www.efanet.org/ (The European Federation of Allergy and Airways Diseases Patients' Associations (EFA)
www.eea.europa.eu (European Environment Agency)
www.atlas.pzh.gov.pl (PZH-Państwowy Zakład Higieny)
http://ec.europa.eu/environment/archives/cafe/general/keydocs.htm (CAFE)
www.helcom.fi
http://klimat.imgw.pl/wp-content/uploads/2010/09/zad.2.r2009web.pdf
www.gios.gov.pl (Państwowy Monitoring Środowiska)
http://www.unece.org/env/lrtap/welcome.html
http://www.eoearth.org/view/article/51cbee387896bb431f6963ac/?topic=51cbfc78f702fc (Indoor air pollution)
http://armaag.gda.pl/
https://www.gdansk.wios.gov.pl
http://db-airmontech.jrc.ec.europa.eu/index.aspx
http://www.airparif.fr/#
http://www.port.gdynia.pl
http://www.marinetraffic.com
http://airpomerania.pl
http://gdansk.naszemiasto.pl/artykul/gdansk-w-oparach-smogu-zdjecia-przekroczone-normy,4016766,artgal,t,id,tm.html
http://misja-emisja.pl/baza-wiedzy/
http://waznamisjazdrowaemisja.pl
https://ntrs.nasa.gov/archive/nasa/casi.ntrs.nasa.gov/19930073077.pdf
https://i.kinja-img.com/gawker-media/image/upload/s--l2pToyAT-/c_scale,fl_progressive,q_80,w_800/kp8wtdc5sygg4xosdqyk.jpg
https://www.epa.gov/sites/production/files/2014-08/documents/sec_7.pdf

The learning outcomes (for the field of study and specialization)

P7U_W: P7S_WG - K_W01, K_W06
P7U_U: P7S_UK - K_U08, K_U09
P7U_K: P7S_KR - K_K01

Knowledge

K_W01 student knows and understands to a greater extent specialized terminology in relation to air pollution in the coastal zone of the sea (in English)
K_W06 student knows and identifies potential threats to human health and the environment occurring from a local to a global scale resulting from air pollution, predicts their effects at various time and spatial scales

Skills

K_U08 Students proficiently communicate in English, including the use of professional terminology
K_U09 Students can synthesize and analyze their own opinions and those of other authors

Social competence

K_K01 Students can work and cooperate in a team by actively assuming different roles, including the role of a leader

Contact

anita.lewandowska@ug.edu.pl