



Faculty of: Geology, Geophysics and Environmental Protection

Field of study: Environmental Protection

Study level: First-cycle studies

Form and type of study: Full-time studies

Annual: 2015/2016

Lecture language: Polish

Code	Module name	Lectures	Auditorium classes	Laboratory classes	Project classes	Conversation seminar	Seminar classes	Practical classes	Fieldwork classes	Workshops	Others	E-learning	ECTS	E
Semester 1														
Engineering														
BOS-1-102-s	Geometry and Computer Graphics	6	0	28	0	0	0	0	0	0	0	8	3	No
BOS-1-105-s	Information technology	14	0	28	0	0	0	0	0	0	0	0	2	No
Mathematics														
BOS-1-101-s	Matematyka I	28	28	0	0	0	0	0	0	0	0	0	6	Yes
Other Basic														
BOS-1-103-s	Chemistry	28	0	42	0	0	0	0	0	0	0	0	6	Yes
BOS-1-104-s	Podstawy geologii	42	0	0	0	0	0	28	0	0	0	0	5	Yes
BOS-1-106-s	Meteorologia i Klimatologia	28	14	0	14	0	0	0	0	0	0	0	3	No
BOS-1-107-s	Biology	28	0	42	0	0	0	0	0	0	0	0	5	Yes
Suma ECTS													30	
Semester 2														
Mathematics														
BOS-1-201-s	Matematyka II	28	28	0	0	0	0	0	0	0	0	0	6	Yes
Non-technical														
BOS-1-213-s	Physical Education 1	0	0	0	0	0	0	0	0	0	28	0	0	No
Other Basic														
BOS-1-202-s	Geomorphology and Quaternary Geology	28	14	0	0	0	0	0	0	0	0	0	3	Yes
BOS-1-203-s	Geologia regionalna z elementami geologii historycznej	14	14	0	0	0	0	0	0	0	0	0	2	No

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BOS-1-204-s	Ecology	28	0	0	14	0	0	14	0	0	0	0	3	No
BOS-1-205-s	Mineralogy and petrography	28	0	28	0	0	0	0	0	0	0	0	3	Yes
BOS-1-206-s	Nature conservation	14	14	0	0	0	0	0	0	0	0	0	2	No
BOS-1-207-s	Biochemistry	28	0	28	0	0	0	0	0	0	0	0	4	Yes
BOS-1-208-s	Hydrology	28	0	0	14	0	0	0	0	0	0	0	2	No
BOS-1-209-s	Podstawy monitoringu środowiska	14	14	0	0	0	0	0	0	0	0	0	2	No
BOS-1-211-s	Field classes with the biology and ecology	0	0	0	0	0	0	0	30	0	0	0	1	No
BOS-1-212-s	Zajęcia terenowe z geologii ogólnej	0	0	0	0	0	0	0	60	0	0	0	2	No
Suma ECTS													30	
Semester 3														
Engineering														
BOS-1-302-s	Geostatistics	14	0	28	0	0	0	0	0	0	0	0	3	No
Foreign Language														
The rules for selecting groups/modules:														
BOS-1-310-s	English B-2 – obligatory course 140h - semester 1/4	0	42	0	0	0	0	0	0	0	0	0	0	No
Non-technical														
BOS-1-311-s	Physical Education 2	0	0	0	0	0	0	0	0	0	14	0	0	No
Other Basic														
BOS-1-303-s	Environmental Impact Assessment	14	0	0	14	0	0	0	0	0	0	0	2	No
BOS-1-304-s	Odnawialne źródła energii	28	14	0	0	0	0	0	0	0	0	0	3	No
BOS-1-305-s	Hydrogeologia	28	0	0	14	0	0	14	0	0	0	0	5	Yes
BOS-1-306-s	Mikrobiologia	28	0	28	0	0	0	0	0	0	0	0	5	Yes
BOS-1-307-s	Technologie w ochronie środowiska	28	14	0	14	0	0	0	0	0	0	0	4	No
BOS-1-308-s	Air protection	14	14	0	0	0	0	0	0	0	0	0	2	No
Physics														
BOS-1-301-s	Fizyka I	28	28	0	0	0	0	0	0	0	0	0	6	Yes
Suma ECTS													30	
Semester 4														
Foreign Language														
The rules for selecting groups/modules:														
BOS-1-409-s	English B-2 – obligatory course 140 - semester 2/4	0	42	0	0	0	0	0	0	0	0	0	0	No
Non-technical														
BOS-1-413-s	Physical Education 3	0	0	0	0	0	0	0	0	0	14	0	0	No
Other Basic														
BOS-1-402-s	Elements of economic geology	14	0	0	0	0	0	28	0	0	0	0	2	No
BOS-1-403-s	Geochemistry	28	14	0	0	0	0	0	0	0	0	0	3	Yes
BOS-1-404-s	Hydrogeochemistry	28	0	14	0	0	0	0	0	0	0	0	2	No
BOS-1-405-s	Cartography	28	0	0	28	0	0	0	0	0	0	0	4	Yes
BOS-1-406-s	Soil science and remediation	28	19	0	9	0	0	0	0	0	0	0	4	Yes
BOS-1-407-s	Podstawy odnowy środowiska	14	0	0	28	0	0	0	0	0	0	0	3	No

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BOS-1-408-s	Economics and Management	14	14	0	0	0	0	0	0	0	0	0	2	No
BOS-1-411-s	Zajęcia terenowe z konwencjonalnych i odnawialnych źródeł energii	0	0	0	0	0	0	0	30	0	0	0	2	No
BOS-1-412-s	Field practice of sozological mapping	0	0	0	0	0	0	0	60	0	0	0	2	No
Physics														
BOS-1-401-s	Fizyka II	28	28	0	0	0	0	0	0	0	0	0	6	Yes
Suma ECTS													30	
Semester 5														
Engineering														
BOS-1-504-s	Metody badań geofizycznych w ochronie środowiska	30	0	0	15	0	0	0	0	0	0	0	4	No
Foreign Language														
The rules for selecting groups/modules:														
BOS-1-509-s	English B-2 – obligatory course 140h - semester 3/4	0	28	0	0	0	0	0	0	0	0	0	0	No
Other Basic														
BOS-1-501-s	Geographica Information Systems (GIS)	15	0	30	0	0	0	0	0	0	0	0	3	No
BOS-1-503-s	Gospodarka odpadami	15	15	0	15	0	0	0	0	0	0	0	4	No
BOS-1-505-s	Hazards and protection of the water environment	15	0	0	15	0	0	0	0	0	0	0	3	No
BOS-1-507-s	Work Safety and Ergonomics	30	0	0	0	0	0	0	0	0	0	0	2	No
BOS-1-508-s	Ochrona własności intelektualnej	15	0	0	0	0	0	0	0	0	0	0	1	No
Blok obieralny OŚ, semestr 5													13	
The rules for selecting groups/modules: Uruchomienie danej ścieżki bloku obieralnego uzależnione jest od minimalnej ilości chętnych (ustalanej odpowiednio każdego roku przez władze wydziału). W przypadku większej ilości chętnych niż miejsc, decydować będzie średnia ocen studenta.														
Moduł 1, semestr 5 (KOŚ + KGIS)														
The rules for selecting groups/modules:														
BOS-1-510-s	Validation of Analytical Methods	15	0	30	0	0	0	0	0	0	0	0	4	No
BOS-1-512-s	Instrumentalne metody analityczne	30	0	30	0	0	0	0	0	0	0	0	6	Yes
Subject in English														
The rules for selecting groups/modules: Należy wybrać jeden moduł														
BOS-1-511-s	Data mining	15	0	0	15	0	0	0	0	0	0	0	3	No
BOS-1-522-s	Waste Management	15	15	0	0	0	0	0	0	0	0	0	3	No
Moduł 2, semestr 5 (KHGI + KGIS)														
The rules for selecting groups/modules:														
BOS-1-513-s	Regional hydrogeology	30	0	0	15	0	0	0	0	0	0	0	4	No
BOS-1-514-s	Soil engineering	15	0	30	0	0	0	0	0	0	0	0	5	Yes
BOS-1-515-s	Databases for Environment Management	15	0	0	0	0	0	45	0	0	0	0	4	No
Moduł 3, semestr 5 (KMPG + KGIS)														
The rules for selecting groups/modules:														
BOS-1-506-s	Methods of phase analysis	15	30	0	0	0	0	0	0	0	0	0	5	No
BOS-1-516-s	Methods of sampling and sample preparation	15	15	15	0	0	0	0	0	0	0	0	5	Yes
Subject in English														
The rules for selecting groups/modules: Należy wybrać jeden moduł														
BOS-1-517-s	Data mining	15	0	0	15	0	0	0	0	0	0	0	3	No

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BOS-1-521-s	Applied mineralogy	30	0	0	0	0	0	0	0	0	0	0	3	No
Suma ECTS													30	
Semester 6														
Engineering														
BOS-1-603-s	Professional practice	0	0	0	0	0	0	120	0	0	0	0	4	No
Foreign Language														
The rules for selecting groups/modules:														
BOS-1-602-s	English B-2 – obligatory course 140 - semester 4/4	0	28	0	0	0	0	0	0	0	0	0	5	Yes
Other Basic														
BOS-1-601-s	ReRemediation and revitalisation of degraded areas	30	0	0	15	0	0	0	0	0	0	0	3	No
Blok obieralny OŚ, semestr 6													18	
The rules for selecting groups/modules: Wybór odpowiedniej ścieżki z bloku obieralnego jest kontynuacją wyboru dokonanego na piątym semestrze.														
Moduł 1, semestr 6 (KOS + KGIS)													18	
The rules for selecting groups/modules:														
BOS-1-604-s	Law and economics in environmental protection	30	30	0	0	0	0	0	0	0	0	0	3	Yes
BOS-1-605-s	Civilization threats and sustainable development	15	0	0	30	0	0	0	0	0	0	0	3	No
BOS-1-606-s	Computer Engineering Graphics 3D (CAD)	15	0	45	0	0	0	0	0	0	0	0	4	No
BOS-1-608-s	Databases for Environment Management	15	0	45	0	0	0	0	0	0	0	0	5	Yes
BOS-1-609-s	Field classes with the environmental protection	0	0	0	0	0	0	0	60	0	0	0	3	No
Moduł 2, semestr 6 (KHGI + KGIS)														
The rules for selecting groups/modules:														
BOS-1-611-s	Monitoring of the aquatic environment	15	0	0	30	0	0	0	0	0	0	0	3	No
BOS-1-612-s	Engineering geology	30	0	0	15	0	0	0	0	0	0	0	3	No
BOS-1-614-s	Construction of groundwater intakes	15	0	0	15	0	0	0	0	0	0	0	3	No
BOS-1-615-s	Environmental data analysis	15	0	0	0	0	0	45	0	0	0	0	3	Yes
BOS-1-617-s	Zajęcia terenowe z geotechniki środowiska i ochrony wód	0	0	0	0	0	0	0	40	0	0	0	3	No
Subject in English													3	
The rules for selecting groups/modules: Należy wybrać jeden moduł														
BOS-1-613-s	Water balance modelling	30	0	0	0	0	0	0	0	0	0	0	3	No
BOS-1-621-s	Znaczniki środowiska w badaniach hydrologicznych i hydrogeologicznych	15	0	0	0	0	0	15	0	0	0	0	3	No
Moduł 3, semestr 6 (KMPG + KGIS)													18	
The rules for selecting groups/modules:														
BOS-1-619-s	Environmental chemistry	30	0	30	0	0	0	0	0	0	0	0	5	Yes
BOS-1-620-s	Law and economics in environmental protection	30	30	0	0	0	0	0	0	0	0	0	3	Yes
BOS-1-622-s	Internet Technology	15	0	45	0	0	0	0	0	0	0	0	4	No
BOS-1-623-s	Komputerowe systemy pomiarowe	15	0	45	0	0	0	0	0	0	0	0	4	No
BOS-1-624-s	Field course on environmental protection	0	0	0	0	0	0	0	60	0	0	0	2	No
Suma ECTS													30	
Semester 7														
Thesis														

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Code	Module name	Lectures	Auditorium classes	Laboratory classes	Project classes	Conversation seminar	Seminar classes	Practical classes	Fieldwork classes	Workshops	Others	E-learning	ECTS	E
BOS-1-703-s	Projekt inżynierski	0	0	0	0	0	0	0	0	0	0	0	15	Yes
BOS-1-704-s	Seminarium dyplomowe	0	0	0	0	0	15	0	0	0	0	0	1	No
Obieralne ekonomiczne														
The rules for selecting groups/modules:													2	
BOS-1-701-s	Small and medium-sized enterprise	15	15	0	0	0	0	0	0	0	0	0	2	No
BOS-1-702-s	Enterprise in a market economy	15	15	0	0	0	0	0	0	0	0	0	2	No
Blok obieralny OŚ, semestr 7													12	
The rules for selecting groups/modules: Wybór odpowiedniej ścieżki z bloku obieralnego jest kontynuacją wyboru dokonanego na piątym semestrze.														
Moduł 1, semestr 7 (KOŚ + KGIS)													12	
The rules for selecting groups/modules:														
BOS-1-705-s	Environmental risk assessment	15	15	0	15	0	0	0	0	0	0	0	5	Yes
BOS-1-706-s	Systemy zarządzania środowiskiem	15	0	0	30	0	0	0	0	0	0	0	3	No
BOS-1-707-s	Teledetekcja w ochronie środowiska	15	0	30	0	0	0	0	0	0	0	0	4	Yes
Moduł 2, semestr 7 (KHGI + KGIS)													12	
The rules for selecting groups/modules:														
BOS-1-709-s	Geotechnika w ochronie środowiska	15	0	0	30	0	0	0	0	0	0	0	4	No
BOS-1-710-s	Basics of groundwater modeling	15	0	30	0	0	0	0	0	0	0	0	3	No
BOS-1-711-s	Contaminants transport in groundwater	15	0	0	15	0	0	0	0	0	0	0	3	No
BOS-1-713-s	Image analysis	7	0	0	0	0	0	8	0	0	0	0	2	No
Moduł 3, semestr 7 (KMPG + KGIS)													12	
The rules for selecting groups/modules:														
BOS-1-712-s	Image processing and analysis	30	0	0	0	0	0	15	0	0	0	0	4	No
BOS-1-714-s	Mineral engineering in environmental protection	15	0	30	0	0	0	0	0	0	0	0	4	Yes
BOS-1-717-s	Databases for Environment Management	15	0	30	0	0	0	0	0	0	0	0	4	No
Suma ECTS													30	