



Faculty of: Geology, Geophysics and Environmental Protection

Field of study: Geophysics 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														
BGF-1-106-s	Geodesy	14	0	0	0	0	0	28	0	0	0	0	2	No
BGF-1-107-s	Techniques of Data Visualization	0	0	28	0	0	0	0	0	0	0	0	2	No
BGF-1-109-s	Computing applications I	0	0	28	0	0	0	0	0	0	0	0	2	No
Mathematics														
BGF-1-101-s	Mathematics I	28	42	0	0	0	0	0	0	0	0	0	4	Yes
Other Basic														
BGF-1-103-s	Unix	0	0	28	0	0	0	0	0	0	0	0	2	No
BGF-1-104-s	Information technology	0	0	28	0	0	0	0	0	0	0	0	2	No
BGF-1-105-s	General Geology	28	0	14	0	0	0	0	0	0	0	0	4	No
BGF-1-108-s	Chemistry	28	14	0	0	0	0	0	0	0	0	14	4	Yes
Physics														
BGF-1-102-s	Physics	42	28	0	0	0	0	0	0	0	0	0	8	Yes
Suma ECTS													30	
Semester 2														
Engineering														
BGF-1-207-s	Computing applications II	0	0	28	0	0	0	0	0	0	0	0	2	No
Mathematics														
BGF-1-201-s	Mathematics II	28	28	0	0	0	0	0	0	0	0	0	4	Yes

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Non-technical														
BGF-1-206-s	WF	0	0	0	0	0	0	28	0	0	0	0	0	No
Other Basic														
BGF-1-203-s	Global Geophysics	28	0	28	0	0	0	0	0	0	0	0	4	Yes
BGF-1-204-s	General Geology	28	0	14	0	0	0	0	0	0	0	0	3	Yes
BGF-1-205-s	Basics of computer graphics	8	0	14	0	0	0	0	0	0	0	20	2	No
BGF-1-208-s	Mineralogy and petrography	28	0	14	0	0	0	0	0	0	0	0	3	No
BGF-1-209-s	Geology fieldworks	0	0	0	0	0	0	45	0	0	0	0	2	No
Physics														
BGF-1-202-s	Physics	42	0	28	0	0	0	0	0	0	0	0	7	Yes
Blok obieralny 1, II semestr Geofizyka													3	
The rules for selecting groups/modules: Należy wybrać jeden moduł														
BGF-1-210-s	Radiological protection	0	0	0	0	0	28	0	0	0	0	0	3	No
BGF-1-211-s	Introduction to astrophysics	0	0	0	0	0	28	0	0	0	0	0	3	No
Suma ECTS													30	
Semester 3														
Engineering														
BGF-1-311-s	Signal theory	28	0	28	0	0	0	0	0	0	0	0	5	Yes
Foreign Language														
The rules for selecting groups/modules:														
BGF-1-305-s	English B-2 – obligatory course 140h - semester 1/4	0	42	0	0	0	0	0	0	0	0	0	0	No
Mathematics														
BGF-1-301-s	Mathematics III	28	28	0	0	0	0	0	0	0	0	0	4	Yes
Non-technical														
BGF-1-306-s	WF	0	0	0	0	0	0	14	0	0	0	0	0	No
Other Basic														
BGF-1-302-s	Statistics	28	28	0	0	0	0	0	0	0	0	0	4	Yes
BGF-1-303-s	Geochemistry	28	14	0	0	0	0	0	0	0	0	0	3	No
BGF-1-304-s	Petrophysics	28	0	28	0	0	0	0	0	0	0	0	4	Yes
BGF-1-307-s	Regional geology	28	0	0	0	0	0	0	0	0	0	0	2	No
Blok obieralny 2, III semestr Geofizyka													8	
The rules for selecting groups/modules: Należy wybrać jeden moduł (A lub B)														
Moduł A - Techniki programowania - cz. I													8	
The rules for selecting groups/modules:														
BGF-1-310-s	C++ programming	0	0	28	0	0	0	0	0	0	0	0	4	No
BGF-1-312-s	Computer-aided design (CAD)	0	0	28	0	0	0	0	0	0	0	0	4	No
Moduł B - Komputerowe wspomaganie przetwarzania danych - cz. I													8	
The rules for selecting groups/modules:														
BGF-1-314-s	Databases	0	0	28	0	0	0	0	0	0	0	0	4	No
BGF-1-316-s	Network and Internet Tools	0	0	28	0	0	0	0	0	0	0	0	4	No

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Suma ECTS													30	
Semester 4														
Engineering														
BGF-1-401-s	Cartography	30	0	0	30	0	0	0	0	0	0	0	4	Yes
BGF-1-402-s	Gravimetry	28	0	28	0	0	0	0	0	0	0	0	4	Yes
BGF-1-403-s	Seismic methods I	42	0	28	0	0	0	0	0	0	0	0	5	Yes
BGF-1-404-s	Electrical and electromagnetic methods I	28	0	28	0	0	0	0	0	0	0	0	4	Yes
BGF-1-405-s	Hydrogeology and Engineering Geology	28	14	0	0	0	0	0	0	0	0	0	3	No
Foreign Language														
The rules for selecting groups/modules:														
BGF-1-406-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														
BGF-1-407-s	WF	0	0	0	0	0	0	14	0	0	0	0	0	No
Blok obieralny 3, IV semestr Geofizyka														
The rules for selecting groups/modules: Należy wybrać jeden moduł														
BGF-1-408-s	Mathematics IV	14	14	0	0	0	0	0	0	0	0	0	3	No
BGF-1-409-s	Introduction to mathematical methods in physics	14	14	0	0	0	0	0	0	0	0	0	3	No
Blok obieralny 4, IV semestr Geofizyka														
The rules for selecting groups/modules: Należy wybrać jeden moduł														
BGF-1-410-s	Mining	28	0	0	0	0	0	0	0	0	0	0	3	No
BGF-1-411-s	Production of unconventional hydrocarbons	14	0	0	14	0	0	0	0	0	0	0	3	No
Blok obieralny 5, IV semestr Geofizyka														
The rules for selecting groups/modules: Należy wybrać kontynuację modułu A lub B z semestru III														
Moduł A - Techniki programowania - cz. II														
The rules for selecting groups/modules:														
BGF-1-412-s	Advanced computational methods in Matlab	0	0	28	0	0	0	0	0	0	0	0	4	No
Moduł B - Komputerowe wspomaganie przetwarzania danych - cz. II														
The rules for selecting groups/modules:														
BGF-1-413-s	Java - programming	0	0	28	0	0	0	0	0	0	0	0	4	No
Suma ECTS													30	
Semester 5														
Engineering														
BGF-1-501-s	Magnetometry	30	0	30	0	0	0	0	0	0	0	0	4	Yes
BGF-1-502-s	Seismic methods II	60	0	30	0	0	0	0	0	0	0	0	6	Yes
BGF-1-503-s	Well Logging I	30	0	30	0	0	0	0	0	0	0	0	4	No
BGF-1-504-s	Electrical and electromagnetic methods II	30	0	15	0	0	0	0	0	0	0	0	4	Yes
BGF-1-505-s	GPR methods	30	0	30	0	0	0	0	0	0	0	0	4	Yes
BGF-1-508-s	GIS	0	0	0	0	30	0	0	0	0	0	0	2	No
Foreign Language														
The rules for selecting groups/modules:														
BGF-1-506-s	English B-2 – obligatory course 140h - semester 3/4	0	28	0	0	0	0	0	0	0	0	0	0	No

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Blok obieralny 6, V semestr Geofizyka														
The rules for selecting groups/modules: Należy wybrać jeden moduł													3	
BGF-1-507-s	Environmental radioactivity	0	0	0	0	0	30	0	0	0	0	0	3	No
BGF-1-513-s	Gravimetry in geodesy	30	0	0	0	0	0	0	0	0	0	0	3	No
Blok obieralny 7, V semestr Geofizyka														
The rules for selecting groups/modules: Należy wybrać jeden moduł													3	
BGF-1-511-s	Drilling	30	0	0	0	0	0	0	0	0	0	0	3	No
BGF-1-512-s	Contaminants transport in environment	15	0	0	15	0	0	0	0	0	0	0	3	No
Suma ECTS													30	
Semester 6														
Engineering														
BGF-1-601-s	Well Logging II	30	0	30	0	0	0	0	0	0	0	0	4	Yes
BGF-1-606-s	Internship in geophysics	0	0	0	0	0	0	120	0	0	0	0	4	No
BGF-1-608-s	Geotechnics	30	0	0	0	0	0	0	0	0	0	0	2	No
BGF-1-609-s	Geophysical fieldworks	0	0	0	0	0	0	60	0	0	0	0	3	No
Foreign Language														
The rules for selecting groups/modules:														
BGF-1-604-s	English B-2 – obligatory course 140 - semester 4/4	0	28	0	0	0	0	0	0	0	0	0	5	Yes
Non-technical														
BGF-1-605-s	Economics	30	0	0	0	0	0	0	0	0	0	0	3	Yes
Other Basic														
BGF-1-603-s	Geology of mineral deposits	30	0	0	0	0	0	0	0	0	0	0	2	No
Blok obieralny (przedmioty humanistyczne) I stopien														
The rules for selecting groups/modules: Należy wybrać jeden przedmiot													2	
BGF-1-602-s	Przedmiot humanistyczny (obieralny) Podstawy negocjacji	30	0	0	0	0	0	0	0	0	0	0	2	No
BGF-1-607-s	Przedmiot humanistyczny (obieralny) Wiedza o nauce	30	0	0	0	0	0	0	0	0	0	0	2	No
BGF-1-613-s	Przedmiot humanistyczny - Religie świata : człowiek a sacrum	30	0	0	0	0	0	0	0	0	0	0	2	No
Blok obieralny 8, VI semestr Geofizyka														
The rules for selecting groups/modules: Należy wybrać jeden moduł													2	
BGF-1-610-s	Reefs and carbonate structures	30	0	0	0	0	0	0	0	0	0	0	2	No
BGF-1-611-s	Properties of clay minerals	30	0	0	0	0	0	0	0	0	0	0	2	No
BGF-1-612-s	Petroleum geochemistry	15	0	15	0	0	0	0	0	0	0	0	2	No
Blok obieralny 9, VI semestr Geofizyka														
The rules for selecting groups/modules: Należy wybrać jeden moduł													3	
BGF-1-614-s	Technical English in Well Logging	0	0	0	0	15	0	0	0	0	0	15	3	No
BGF-1-615-s	GPR investigation on engineering problems	0	0	0	0	30	0	0	0	0	0	0	3	No
Suma ECTS													30	
Semester 7														
Thesis														
BGF-1-707-s	Diploma seminar	0	0	0	0	0	15	0	0	0	0	0	1	No

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BGF-1-708-s	Defence of engineering thesis and engineering exam	0	0	0	0	0	0	0	0	0	0	0	15	Yes
Blok obieralny 11, VII semestr Geofizyka														
The rules for selecting groups/modules: Należy wybrać jeden moduł													3	
BGF-1-703-s	The sequence stratigraphy	15	15	0	0	0	0	0	0	0	0	0	3	No
BGF-1-704-s	Mechanics of soils and rocks	30	0	15	0	0	0	0	0	0	0	0	3	No
Blok obieralny 12, VII semestr Geofizyka														
The rules for selecting groups/modules: Należy wybrać jeden moduł													2	
BGF-1-705-s	Plate Tectonics	30	0	0	0	0	0	0	0	0	0	0	2	No
BGF-1-706-s	Remote Sensing	15	0	0	0	0	0	15	0	0	0	0	2	No
Blok obieralny 10, VII semestr Geofizyka													9	
The rules for selecting groups/modules: Należy wybrać jeden moduł (C lub D)														
Moduł C - Interpretacja w geofizyce poszukiwawczej														
The rules for selecting groups/modules:													10	
BGF-1-701-s	Structural interpretation of seismic data	0	0	20	0	0	0	0	0	0	0	0	3	No
BGF-1-702-s	Nuclear Magnetic Resonance in Geophysics	20	0	0	0	0	0	0	0	0	0	0	2	No
BGF-1-709-s	Interpretation of potential fields (gravimetry, magnetometry) in prospecting geophysics	0	0	20	0	0	0	0	0	0	0	0	2	No
BGF-1-710-s	Analytical and physical models in electrical methods	0	0	20	0	0	0	0	0	0	0	0	2	No
Moduł D - Interpretacja w geofizyce inżynierskiej														
The rules for selecting groups/modules:													10	
BGF-1-711-s	Interpretation of seismic engineering data	0	0	20	0	0	0	0	0	0	0	0	3	No
BGF-1-712-s	Geophysics in archeology	0	0	0	0	0	20	0	0	0	0	0	2	No
BGF-1-713-s	Interpretation of potential fields (gravimetry, magnetometry) in engineering geophysics	0	0	20	0	0	0	0	0	0	0	0	2	No
BGF-1-714-s	Advanced methods of GPR data analysis	0	0	20	0	0	0	0	0	0	0	0	2	No
Suma ECTS													30	