



**AGH**

AGH UNIVERSITY OF SCIENCE  
AND TECHNOLOGY

Faculty of: Geology, Geophysics and Environmental Protection

Field of study: Applied Computer Science

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
<b>Semester 1</b>														
Mathematics														
BIT-1-101-s	Analiza matematyczna	42	56	0	0	0	0	0	0	0	0	0	6	Yes
BIT-1-102-s	Linear Algebra	28	28	0	0	0	0	0	0	0	0	0	5	Yes
Non-technical														
BIT-1-109-s	Physical Education 1	0	0	0	0	0	0	0	0	0	28	0	0	No
Other Basic														
BIT-1-103-s	Geologia podstawowa	28	0	0	0	0	0	14	0	0	0	0	3	No
BIT-1-105-s	Chemistry	28	14	0	0	0	0	0	0	0	0	14	6	No
BIT-1-106-s	Introduction to Computer Science	28	0	28	0	0	0	0	0	0	0	0	6	Yes
Physics														
BIT-1-104-s	Fizyka I	28	28	0	0	0	0	0	0	0	0	0	4	No
Suma ECTS													30	
<b>Semester 2</b>														
Mathematics														
BIT-1-205-s	Równania różniczkowe	28	56	0	0	0	0	0	0	0	0	0	5	Yes
BIT-1-212-s	Logic and discrete mathematics	28	14	0	0	0	0	0	0	0	0	0	2	No
Non-technical														
BIT-1-211-s	Physical Education 2	0	0	0	0	0	0	0	0	0	14	0	0	No
BIT-1-213-s	Economic and Legal Aspects in Informatics	28	0	0	0	0	0	0	0	0	0	0	3	No

## Study programme - Applied Computer Science - 2015/2016

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<b>Other Basic</b>														
BIT-1-201-s	Algorytmy i struktury danych	28	14	0	0	0	0	0	0	0	0	0	3	No
BIT-1-203-s	Internet Technology	14	0	0	0	0	0	28	0	0	0	0	3	No
BIT-1-204-s	Geofizyka I	28	0	0	0	0	0	14	0	0	0	0	3	Yes
BIT-1-210-s	System Unix	14	0	28	0	0	0	0	0	0	0	0	4	No
<b>Physics</b>														
BIT-1-202-s	Fizyka II	28	28	0	0	0	0	0	0	0	0	0	5	Yes
<b>Blok obieralny (przedmioty humanistyczne) I stopien</b>													2	
The rules for selecting groups/modules: Należy wybrać jeden przedmiot														
BIT-1-207-s	Religions of the world	30	0	0	0	0	0	0	0	0	0	0	2	No
BIT-1-208-s	Basis for negotiations	30	0	0	0	0	0	0	0	0	0	0	2	No
BIT-1-209-s	The knowledge about science	28	0	0	0	0	0	0	0	0	0	0	2	No
Suma ECTS													30	
<b>Semester 3</b>														
<b>Foreign Language</b>														
The rules for selecting groups/modules:														
BIT-1-309-s	English B-2 – obligatory course 140h - semester 1/4	0	42	0	0	0	0	0	0	0	0	0	0	No
<b>Mathematics</b>														
BIT-1-305-s	Statystyka Matematyczna	28	28	0	0	0	0	0	0	0	0	0	6	Yes
<b>Other Basic</b>														
BIT-1-303-s	Fundamentals of Electronics and Metrology	28	0	42	0	0	0	0	0	0	0	0	6	Yes
BIT-1-304-s	Procedural programming	14	0	42	0	0	0	0	0	0	0	0	5	No
BIT-1-312-s	Teledetekcja z elementami fotogrametrii	28	0	0	0	0	0	14	0	0	0	0	3	No
<b>Physics</b>														
BIT-1-302-s	Modern physics	28	0	0	0	0	0	14	0	0	0	0	3	No
<b>Blok obieralny, III semestr Informatyka Stosowana</b>													7	
The rules for selecting groups/modules: Należy wybrać jeden moduł.														
<b>Moduł 1A, III semestr Informatyka Stosowana</b>													7	
The rules for selecting groups/modules:														
BIT-1-306-s	Przestrzeń ekologiczna i rozwój zrównoważony	28	0	0	0	0	0	14	0	0	0	0	3	No
BIT-1-308-s	Geologia podstawowa II	28	28	0	0	0	0	0	0	0	0	0	4	Yes
<b>Moduł 1B, III semestr Informatyka Stosowana</b>													7	
The rules for selecting groups/modules:														
BIT-1-307-s	Natural environmental hazards	28	0	0	0	0	0	14	0	0	0	0	3	No
BIT-1-310-s	Geofizyka II	28	28	0	0	0	0	0	0	0	0	0	4	Yes
Suma ECTS													30	
<b>Semester 4</b>														
<b>Foreign Language</b>														
The rules for selecting groups/modules:														
BIT-1-408-s	English B-2 – obligatory course 140 - semester 2/4	0	42	0	0	0	0	0	0	0	0	0	0	No

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<b>Non-technical</b>														
BIT-1-407-s	Wychowanie fizyczne (ostatni semestr)	0	0	0	0	0	0	14	0	0	0	0	0	No
<b>Other Basic</b>														
BIT-1-401-s	Computer Networks	28	0	28	0	0	0	0	0	0	0	0	6	Yes
BIT-1-402-s	Systemy Operacyjne	28	0	28	0	0	0	0	0	0	0	0	6	Yes
BIT-1-403-s	Object Oriented Programming	14	0	42	0	0	0	0	0	0	0	0	4	No
BIT-1-404-s	Digital Electronics and Computer Architecture	28	0	28	0	0	0	0	0	0	0	0	5	No
BIT-1-405-s	Numerical methods	28	0	0	0	0	0	28	0	0	0	0	6	Yes
BIT-1-406-s	Computer Aided Design	14	0	28	0	0	0	0	0	0	0	0	3	No
<b>Suma ECTS</b>													30	
<b>Semester 5</b>														
<b>Foreign Language</b>														
The rules for selecting groups/modules:														
BIT-1-513-s	English B-2 – obligatory course 140h - semester 3/4	0	28	0	0	0	0	0	0	0	0	0	0	No
<b>Other Basic</b>														
BIT-1-501-s	Database I	15	0	30	0	0	0	0	0	0	0	0	4	Yes
BIT-1-502-s	Geometry and Computer Graphics	15	0	30	0	0	0	0	0	0	0	0	3	No
BIT-1-504-s	Computer Measurement Systems	15	0	45	0	0	0	0	0	0	0	0	3	No
BIT-1-506-s	Signal theory	30	0	0	0	0	0	30	0	0	0	0	5	Yes
<b>Blok obieralny, V semestr Informatyka Stosowana</b>													15	
The rules for selecting groups/modules: Należy wybrać jeden moduł.														
<b>Moduł 2A, V semestr Informatyka Stosowana</b>														
The rules for selecting groups/modules:														
BIT-1-503-s	Object oriented programming II	15	0	30	0	0	0	0	0	0	0	0	4	No
BIT-1-505-s	Programming in Python	15	0	0	0	0	0	30	0	0	0	0	4	No
BIT-1-507-s	Programming in Linux	15	0	30	0	0	0	0	0	0	0	0	4	No
BIT-1-512-s	Advanced PHP programming	15	0	0	0	0	0	30	0	0	0	0	3	No
<b>Moduł 2B, V semestr Informatyka Stosowana</b>													15	
The rules for selecting groups/modules:														
BIT-1-508-s	Elements of remote sensing and GIS	15	0	0	0	0	0	30	0	0	0	0	4	No
BIT-1-510-s	Satellite Radar Interferometry	15	0	0	0	0	0	30	0	0	0	0	3	No
BIT-1-511-s	Introduction to geodynamic modelling systems	15	0	0	0	0	0	30	0	0	0	0	4	No
BIT-1-514-s	Fundamentals of engineering geology	15	0	0	0	0	0	30	0	0	0	0	4	No
<b>Suma ECTS</b>													30	
<b>Semester 6</b>														
<b>Foreign Language</b>														
The rules for selecting groups/modules:														
BIT-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
<b>Other Basic</b>														
BIT-1-601-s	Digital image processing and analysis	30	0	0	0	0	0	45	0	0	0	0	4	Yes

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BIT-1-602-s	Artificial Intelligence and expert systems	45	0	0	0	0	0	30	0	0	0	0	4	Yes
BIT-1-603-s	Object Oriented Programming for Windows	15	0	0	0	0	0	45	0	0	0	0	3	Yes
BIT-1-611-s	Professional intership	0	0	0	0	0	0	120	0	0	0	0	4	No
<b>Blok obieralny, VI semestr Informatyka Stosowana</b>													10	
The rules for selecting groups/modules: Należy wybrać jeden moduł.														
<b>Moduł 3A, VI semestr Informatyka Stosowana</b>													9	
The rules for selecting groups/modules:														
BIT-1-606-s	Podstawy programowania aplikacji korporacyjnych	15	0	0	0	0	0	45	0	0	0	0	4	No
BIT-1-607-s	Systemy Informatyczne (Development of Computer Systems)	15	0	0	0	0	0	30	0	0	0	0	3	No
BIT-1-608-s	Computer Systems Administration	15	0	30	0	0	0	0	0	0	0	0	3	No
<b>Moduł 3B, VI semestr Informatyka Stosowana</b>													9	
The rules for selecting groups/modules:														
BIT-1-605-s	Kombinatoryka dla programistów (Combinatorics for Software Developer)	15	0	0	0	0	0	30	0	0	0	0	3	No
BIT-1-609-s	Computer Network Configuration and Diagnostics	15	0	30	0	0	0	0	0	0	0	0	3	No
BIT-1-610-s	Network communication programming	15	0	45	0	0	0	0	0	0	0	0	4	No
Suma ECTS													30	
<b>Semester 7</b>														
Other Basic														
BIT-1-710-s	Diploma seminar	0	0	0	0	0	15	0	0	0	0	0	1	No
BIT-1-712-s	Engineering project	0	0	0	0	0	0	0	0	0	0	0	15	Yes
<b>Blok obieralny, VII semestr Informatyka Stosowana</b>													14	
The rules for selecting groups/modules: Należy wybrać jeden moduł.														
<b>Moduł 4A, VII semestr Informatyka Stosowana</b>													14	
The rules for selecting groups/modules:														
BIT-1-701-s	Advanced Signal Processing	15	0	30	0	0	0	0	0	0	0	0	3	No
BIT-1-702-s	Spatial data analysis	15	0	0	0	0	0	30	0	0	0	0	4	Yes
BIT-1-703-s	Stereology and image analysis in geology	15	0	0	0	0	0	15	0	0	0	0	3	No
BIT-1-704-s	SVG vector graphics	15	0	0	0	0	0	30	0	0	0	0	4	Yes
<b>Moduł 4B, VII semestr Informatyka Stosowana</b>													14	
The rules for selecting groups/modules:														
BIT-1-706-s	Data mining	15	0	0	0	0	0	30	0	0	0	0	3	No
BIT-1-708-s	Programowanie w środowisku NET	0	0	0	0	0	0	30	0	0	0	0	3	Yes
BIT-1-709-s	Technologie Komponentowe	15	0	0	0	0	0	30	0	0	0	0	3	No
BIT-1-711-s	Spatial database	15	0	30	0	0	0	0	0	0	0	0	5	Yes
Suma ECTS													30	