



AGH

AGH UNIVERSITY OF SCIENCE
AND TECHNOLOGY

Faculty of: Physics and Applied Computer Science

Field of study: Applied Computer Science Study level: Second-cycle studies Form and type of study: Full-time studies

Specialty: Grafika komputerowa i przetwarzanie obrazów Annual: 2018/2019 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														
Other Basic														
IIS-2-103-GK-s	Modelling of Physical Systems	30	0	30	0	0	0	0	0	0	0	0	5	Yes
IIS-2-104-GK-s	Advanced Internet Techniques	15	0	15	30	0	0	0	0	0	0	0	5	No
IIS-2-107-GK-s	Parallel and Distributed Systems	30	0	26	4	0	0	0	0	0	0	0	5	Yes
Physics														
IIS-2-101-GK-s	Contemporary Physics	30	30	0	0	0	0	0	0	0	0	0	3	No
Grafika komputerowa i przetwarzanie obrazów - sem. 1													13	
The rules for selecting groups/modules:														
IIS-2-102-GK-s	Komputerowa edycja i przetwarzanie grafiki	30	0	30	0	0	0	0	0	0	0	0	4	No
IIS-2-105-GK-s	Image Analysis and Processing	18	0	30	10	0	0	0	0	0	0	0	5	No
IIS-2-106-GK-s	Video and Animation in Computer Systems	0	0	15	15	0	15	0	0	0	0	0	4	No
Suma ECTS													31	
Semester 2														
Elective														
IIS-2-203-GK-s	Practical Placement	0	0	0	0	0	0	110	0	0	0	0	4	No
Other Basic														
IIS-2-201-GK-s	Data Mining	30	0	22	20	0	0	0	0	0	0	0	6	Yes
IIS-2-202-GK-s	Microprocessor Techniques	20	0	22	15	0	0	0	0	0	0	0	5	No

Study programme - Applied Computer Science - 2018/2019

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Electives Humanities II													2	
The rules for selecting groups/modules: Student wybiera przedmioty obieralne o łącznej liczbie ECTS nie mniejszej od 2.														
IIS-2-204-GK-s	Who is the man? Contemporary controversy	30	0	0	0	0	0	0	0	0	0	0	2	No
IIS-2-206-GK-s	Główne nurty muzyki popularnej	30	0	0	0	0	0	0	0	0	0	0	2	No
IIS-2-209-GK-s	Sociology of religion and non-religion	30	0	0	0	0	0	0	0	0	0	0	2	No
IIS-2-214-GK-s	Organisation management	30	0	0	0	0	0	0	0	0	0	0	2	No
IIS-2-215-GK-s	Blank spots in Polish history. Disputes and controversies	30	0	0	0	0	0	0	0	0	0	0	2	No
IIS-2-216-GK-s	The Anthropology of Everyday Life. From Birth to Death	30	0	0	0	0	0	0	0	0	0	0	2	No
IIS-2-217-GK-s	Philosophical cancelling and coaching	30	0	0	0	0	0	0	0	0	0	0	2	No
IIS-2-219-GK-s	Współczesne społeczeństwo polskie	30	0	0	0	0	0	0	0	0	0	0	2	No
IIS-2-220-GK-s	From Tolkien to Brown. XX and XXI century popular literature	30	0	0	0	0	0	0	0	0	0	0	2	No
IIS-2-222-GK-s	Myślenie krytyczne. Współczesne wyzwania kultury i cywilizacji	30	0	0	0	0	0	0	0	0	0	0	2	No
Electives Humanities II													3	
The rules for selecting groups/modules: Student wybiera przedmioty obieralne o łącznej liczbie ECTS nie mniejszej od 3.														
IIS-2-205-GK-s	Zarządzanie rozwojem startupu	15	15	0	0	0	0	0	0	0	0	0	3	No
IIS-2-221-GK-s	Modern marketing activities	15	30	0	0	0	0	0	0	0	0	0	3	No
Foreign language													2	
The rules for selecting groups/modules: Jeden przedmiot z grupy														
IIS-2-208-GK-s	French B2+ course - compulsory course for students of SECOND-CYCLE STUDIES	0	30	0	0	0	0	0	0	0	0	0	2	Yes
IIS-2-210-GK-s	Spanish B2+ course - compulsory course for students of SECOND-CYCLE STUDIES	0	30	0	0	0	0	0	0	0	0	0	2	Yes
IIS-2-211-GK-s	German B2+ course - compulsory course for students of SECOND-CYCLE STUDIES at the Faculty of Physics and Applied Computer Science	0	30	0	0	0	0	0	0	0	0	0	2	Yes
IIS-2-212-GK-s	Russian B2+ course - compulsory course for students of SECOND-CYCLE STUDIES	0	30	0	0	0	0	0	0	0	0	0	2	Yes
IIS-2-213-GK-s	English B2+ course - compulsory ESP course for students of SECOND-CYCLE STUDIES at the Faculty of Physics and Applied Computer Science	0	30	0	0	0	0	0	0	0	0	0	2	Yes
Electives IS II.2 GKİPO													8	
The rules for selecting groups/modules: Student musi zrealizować moduły obieralne za łączną wartość co najmniej 8 punktów ECTS, w tym przedmiot w całości prowadzony w języku obcym, za który może uzyskać co najmniej 3 ECTS.														
Suma ECTS													30	
Semester 3														
Other Basic														
IIS-2-302-GK-s	Team Programming	10	0	20	10	0	0	0	0	0	0	0	5	No
Thesis														
IIS-2-301-GK-s	Master's thesis	0	0	0	90	0	0	0	0	0	0	0	20	Yes
IIS-2-303-GK-s	Seminar (M.Sc. Thesis)	0	0	0	0	0	45	0	0	0	0	0	5	No
Suma ECTS													30	
Semester 0 - Completion of modules in any semester														
Engineering														
IIS-2-001-GK-s	Wprowadzenie do biometrii w urządzeniach mobilnych	30	0	30	10	0	0	0	0	0	0	0	6	No
IIS-2-002-GK-s	Urządzenia i zastosowania biometrii	30	0	30	10	0	0	0	0	0	0	0	6	No

Study programme - Applied Computer Science - 2018/2019

Code	Module name	Lectures	Auditorium classes	Laboratory classes	Project classes	Conversation seminar	Seminar classes	Practical classes	Fieldwork classes	Workshops	Others	E-learning	ECTS	E
IIS-2-003-GK-s	Network Security	30	0	15	0	0	0	0	0	0	0	0	4	No
IIS-2-004-GK-s	Sound and Music in Computer Systems	30	0	30	0	0	0	0	0	0	0	0	4	No
IIS-2-005-GK-s	Reverse Engineering	0	0	20	20	0	20	0	0	0	0	0	5	No
IIS-2-006-GK-s	Programming Advanced Techniques	0	0	20	20	0	20	0	0	0	0	0	6	Yes
IIS-2-007-GK-s	Programming in Python	0	0	45	0	0	0	0	0	0	0	0	4	No
IIS-2-008-GK-s	Platforma integracyjna IBM Power Systems/IBM i	30	0	30	0	0	0	0	0	0	0	0	4	No
IIS-2-013-GK-s	Applications for Mobile Devices	15	0	30	0	0	0	0	0	0	0	0	4	No
IIS-2-016-GK-s	Geometria komputerowa	30	0	30	0	0	0	0	0	0	0	0	4	No
IIS-2-019-GK-s	Design of CMOS Integrated Circuits	15	0	30	15	0	0	0	0	0	0	0	5	Yes
IIS-2-020-GK-s	Design of integrated circuits in CMOS technology	15	0	30	15	0	0	0	0	0	0	0	4	Yes
IIS-2-021-GK-s	Analysis of Algorithms	0	0	0	30	0	15	0	0	0	0	0	3	No
IIS-2-022-GK-s	Cellular Automata	30	0	0	15	0	0	0	0	0	0	0	4	No
IIS-2-023-GK-s	Scientific Text Edition and Presentation	15	0	15	0	0	15	0	0	0	0	0	4	No
IIS-2-025-GK-s	VPython: 3D Simulations of Physical Processes for Everybody	15	0	30	0	0	0	0	0	0	0	0	3	No
IIS-2-027-GK-s	Data Acquisition Systems	0	0	20	20	0	20	0	0	0	0	0	6	No
IIS-2-028-GK-s	Genetic algorithms	30	0	15	7	0	0	0	0	0	0	0	4	No
IIS-2-029-GK-s	Advanced low-level programming	0	0	20	20	0	20	0	0	0	0	0	4	No
IIS-2-030-GK-s	Collective Intelligence Methods	30	0	15	15	0	0	0	0	0	0	0	4	No
IIS-2-031-GK-s	Computer Architecture	30	0	0	0	0	0	0	0	0	0	0	3	No
IIS-2-032-GK-s	Designing Electronic Modules	15	0	30	15	0	0	0	0	0	0	0	5	No
IIS-2-033-GK-s	Hardware Description Language	20	0	22	15	0	0	0	0	0	0	0	6	No
IIS-2-034-GK-s	Network Programming and Cybersecurity	14	0	16	8	0	0	0	0	0	0	0	3	No
Mathematics														
IIS-2-017-GK-s	Introduction to Game Theory	30	0	0	0	0	0	0	0	0	0	0	3	Yes
IIS-2-018-GK-s	Nonlinear Dynamics	30	0	0	0	0	0	0	0	0	0	0	2	Yes
Other Basic														
IIS-2-015-GK-s	Fundamentals of Quantum Computer Science	30	30	0	0	0	0	0	0	0	0	0	4	No
IIS-2-026-GK-s	Podstawy obliczeń kwantowych	30	0	0	0	0	30	0	0	0	0	0	5	Yes
Physics														
IIS-2-009-GK-s	Cryogenics	30	0	15	0	0	0	0	0	0	0	0	4	No
IIS-2-011-GK-s	Superconductivity and Superfluidity	30	0	15	0	0	0	0	0	0	0	0	4	No
IIS-2-012-GK-s	Physics of Sailing	30	0	0	0	0	0	0	0	0	0	0	2	No
IIS-2-014-GK-s	Introduction to Quantum Optics	30	30	0	0	0	0	0	0	0	0	0	4	No
IIS-2-024-GK-s	Scattering Theory	30	30	0	0	0	0	0	0	0	0	0	4	Yes