



AGH

AGH UNIVERSITY OF SCIENCE
AND TECHNOLOGY

Faculty of: Physics and Applied Computer Science

Field of study: Medical Physics

Study level: Second-cycle studies

Form and type of study: Full-time studies

Specjalty: Dozymetria i elektronika w medycynie

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														
Engineering														
JFM-2-103-DE-s	Electronic Medical Devices	30	0	45	15	0	0	0	0	0	0	0	4	No
JFM-2-107-DE-s	Electronic Dosimetry Devices	10	0	20	0	0	0	0	0	0	0	0	4	No
Other Basic														
JFM-2-101-DE-s	Physical methods in biology and medicine	30	0	30	0	0	15	0	0	0	0	0	5	Yes
JFM-2-102-DE-s	Dosimetry of Non-ionizing Radiation	30	0	30	15	0	0	0	0	0	0	0	5	No
JFM-2-104-DE-s	Metody rezonansowe	30	0	10	0	0	0	0	0	0	0	0	3	No
JFM-2-105-DE-s	Podstawy pierwszej pomocy	5	0	0	0	0	0	9	0	0	0	0	2	Yes
Physics														
JFM-2-106-DE-s	Radioactivity in the Environment	30	0	15	0	0	0	0	0	0	0	0	3	No
Thesis														
JFM-2-109-DE-s	Diploma practice	0	0	0	0	0	0	160	0	0	0	0	4	No
Suma ECTS													30	
Semester 2														
Engineering														
JFM-2-206-DE-s	Neuroelektronika	15	0	0	0	0	18	0	0	0	0	0	3	No
JFM-2-207-DE-s	Clinical Dosimetry	15	0	0	0	0	0	0	0	5	0	0	3	Yes
JFM-2-208-DE-s	Radiobiology and radiotherapy	30	0	0	0	0	0	0	0	10	0	0	2	No
Other Basic														

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JFM-2-201-DE-s	Metody fizyczne w diagnostyce i terapii	30	0	15	0	0	15	0	0	0	0	0	5	Yes
JFM-2-202-DE-s	Statistics in Medicine	30	0	0	15	0	0	0	0	0	0	0	3	No
JFM-2-203-DE-s	Medical Laboratory	10	0	20	0	0	15	0	0	0	0	0	4	No
JFM-2-205-DE-s	Detection of Nuclear Radiation in Medicine	20	0	45	0	0	0	0	0	0	0	0	5	No
Foreign language														
The rules for selecting groups/modules: Jeden przedmiot z grupy													2	
JFM-2-204-DE-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
JFM-2-211-DE-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
JFM-2-212-DE-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
JFM-2-213-DE-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
JFM-2-214-DE-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 (in foreign language)													3	
The rules for selecting groups/modules: Student wybiera przedmiot w języku obcym za 3 ECTS z oferty wydziału bądź ogólnouczelnianej.														
Suma ECTS													30	
Semester 3														
Engineering														
JFM-2-304-DE-s	Nuclear Medicine	18	0	22	0	0	0	0	0	0	0	0	3	Yes
Non-technical														
JFM-2-303-DE-s	Zagadnienia prawno-organizacyjne w medycynie	15	0	0	0	0	15	0	0	0	0	0	2	No
Thesis														
JFM-2-301-DE-s	Master's thesis	0	0	0	90	0	0	0	0	0	0	0	20	Yes
JFM-2-302-DE-s	Seminarium dyplomowe	0	0	0	0	0	45	0	0	0	0	0	3	No
Electives Humanities II														
The rules for selecting groups/modules: Student wybiera przedmioty obieralne o łącznej liczbie ECTS nie mniejszej od 3.													3	
JFM-2-305-DE-s	Modern marketing activities	15	30	0	0	0	0	0	0	0	0	0	3	No
JFM-2-306-DE-s	Zarządzanie rozwojem startupu	15	15	0	0	0	0	0	0	0	0	0	3	No
Suma ECTS													31	
Semester 0 - Completion of modules in any semester														
Engineering														
JFM-2-001-DE-s	Cryogenics	30	0	15	0	0	0	0	0	0	0	0	4	No
JFM-2-003-DE-s	Superconductivity and Superfluidity	30	0	15	0	0	0	0	0	0	0	0	4	No
JFM-2-012-DE-s	Design of integrated circuits in CMOS technology	15	0	30	15	0	0	0	0	0	0	0	4	Yes
JFM-2-013-DE-s	Design of CMOS Integrated Circuits	15	0	30	15	0	0	0	0	0	0	0	5	Yes
JFM-2-015-DE-s	Microprocessor Techniques	20	0	22	15	0	0	0	0	0	0	0	5	No
JFM-2-017-DE-s	Introduction to X-ray Fluorescence Analysis	30	0	0	0	0	0	0	0	14	0	0	4	Yes
JFM-2-019-DE-s	Microtomography	22	0	15	0	8	0	0	0	0	0	0	4	No
JFM-2-022-DE-s	Methodology of Air Quality Measurements	15	0	12	6	0	0	0	15	0	0	0	4	No

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JFM-2-023-DE-s	Designing Electronic Modules	15	0	30	15	0	0	0	0	0	0	0	5	No
JFM-2-024-DE-s	Nanotechnologies and their Applications in Natural Sciences	15	7	7	0	0	0	0	0	0	0	0	3	Yes
Non-technical														
JFM-2-007-DE-s	Photosynthesis	30	0	20	0	0	8	0	0	0	0	0	5	No
JFM-2-008-DE-s	Small Course of Photosynthesis	22	0	0	0	0	6	0	0	0	0	0	3	No
JFM-2-021-DE-s	Selected aspects of Atomic law	0	0	0	0	30	0	0	0	0	0	0	2	No
Other Basic														
JFM-2-005-DE-s	Sztuczne narzędzia	15	0	0	0	0	0	0	0	0	0	0	2	No
JFM-2-010-DE-s	Biosensors	15	0	0	0	0	0	0	0	0	0	0	2	No
JFM-2-011-DE-s	Techniki membranowe	15	0	0	0	0	0	0	0	0	0	0	2	No
Physics														
JFM-2-002-DE-s	Methods of Structural and Diffractive Analysis of Aperiodic Systems	10	0	20	0	0	0	0	0	0	0	0	2	No
JFM-2-004-DE-s	Introduction to Quantum Theory of Electronic Transport	30	0	0	0	0	0	0	0	0	0	0	4	No
JFM-2-006-DE-s	Trace Analysis	15	0	15	0	0	0	0	0	0	0	0	3	No
JFM-2-009-DE-s	Global Environmental Changes	30	0	0	0	0	15	0	0	0	0	0	5	Yes
JFM-2-025-DE-s	X-ray Physics	30	15	15	0	0	0	0	0	0	0	0	6	Yes