

Programme plan

Programme, level of studies INFORMATICS (BA DEGREE STUDIES)

Academic year 2023/2024 – cycle from academic year 2023/2024

Predicted number of students starting the cycle

30

Year I Semester I

COMPULSORY COURSES								
No.	Course name	Type of class	Number of teaching hours	Form of assessment	Number of groups	Total hours	ECTS Points	Course instructor
1.	Computer architecture	lecture	15	Exam	1	15	3	prof. dr hab. Anatolij Melnyk
		laboratory	15	Graded Pass	2	30		
2.	Computer networks and Internet	lecture	15	Exam	1	15	5	dr Marcin Płonkowski
		laboratory	30	Graded Pass	2	60		
3.	Introduction to computer science	lecture	30	Exam	1	30	7	dr Dorota Pylak
		laboratory	45	Graded Pass	2	90		mgr Sara Jurczyk-Zielińska
4.	Introduction to differential and integral calculus	lecture	30	Exam	1	30	5	dr Andrzej Michalski
		laboratory	30	Graded Pass	2	60		
5.	Linear algebra	lecture	15	Exam	1	15	5	dr Grzegorz Dymek
		laboratory	30	Graded Pass	2	60		
6.	Logic	lecture	10	Exam	1	10	2	dr Piotr Lipski
		class	15	Graded Pass	2	30		dr Marcin Czakon
7.	Protection of intellectual property	lecture	15	Graded Pass	1	15	1	dr Krzysztof Dobieżyński
ELECTIVE COURSES								
1.	Foreign language	foreign language classes	30	Graded Pass			2	SJO
2.	Physical education	class	30	Pass			0	SWFIS

* The student undergoes training: Health and safety procedures training, Student rights and obligations, Student culture and ethos

NUMBER OF TEACHING HOURS PER SEMESTER PER STUDENT:	355
ECTS POINTS PER SEMESTER PER STUDENT:	30

Programme curriculum

Programme, level of studies INFORMATICS (BA DEGREE STUDIES)

Academic year 2023/2024 – cycle from academic year 2023/2024

Predicted number of students starting the cycle

30

Year I Semester II

COMPULSORY COURSES								
No.	Course name	Type of class	Number of teaching hours	Form of assessment	Number of groups	Total hours	ECTS Points	Course instructor
1.	Algorithms of numerical analysis	lecture	15	Exam	1	15	3	dr Małgorzata Nowak-Kępczyk
		laboratory	15	Graded Pass	2	30		
2.	Analytic geometry	lecture	15	Exam	1	15	3	dr Grzegorz Dymek
		laboratory	15	Graded Pass	2	30		
3.	Computer graphics	laboratory	15	Graded Pass	2	30	2	dr Armen Grigoryan
4.	Discrete mathematics	lecture	30	Exam	1	30	5	dr Armen Grigoryan
		laboratory	30	Graded Pass	2	60		
5.	Entrepreneurship	workshops	15	Graded Pass	2	30	1	prof.. dr hab. Tomasz Stuczyński
6.	Fundamentals of algorithms and programming	lecture	30	Exam	1	30	6	dr Dorota Pylak
		laboratory	30	Graded Pass	2	60		Mgr Sara Jurczyk-Zielińska
7.	Operating systems	lecture	15	Exam	1	15	4	dr Viktor Melnyk
		laboratory	30	Graded Pass	2	60		
8.	Tutoring	workshops	15	Graded Pass	2	30	1	mgr Patrycja Jędrzejewska-Rzezak
9.	Websites design	laboratory	30	Graded Pass	2	60	3	<i>umowa cywilnoprawna</i>
ELECTIVE COURSES								
1.	Foreign language	foreign language classes	30	Graded Pass			2	SJO
2.	Physical education	class	30	Pass			0	SWFIS

NUMBER OF TEACHING HOURS PER SEMESTER PER STUDENT:	360
ECTS POINTS PER SEMESTER PER STUDENT:	30

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21

Year II Semester III

COMPULSORY COURSES								
No.	Course name	Type of class	Number of teaching hours	Form of assessment	Number of groups	Total hours	ECTS Points	Course instructor
1.	Computer modeling and simulations	lecture	30	Exam	1	30	5	dr hab. Aliaksandr Chychuryn
		laboratory	30	Graded Pass	2	60		
2.	Databases I	lecture	30	Exam	1	30	5	dr Joanna Kapusta
		laboratory	30	Graded Pass	2	60		
3.	Foundations of probabilistic methods	lecture	30	Exam	1	30	5	dr Kamil Powroźnik
		laboratory	30	Graded Pass	2	60		
4.	History of philosophy	lecture	30	Exam	1	30	2	dr Maksymilian Roszyk
5.	Object-oriented programming	lecture	30	Exam	1	30	5	dr Dorota Pylak
		laboratory	30	Graded Pass	2	60		mgr Sara Jurczyk-Zielińska
ELECTIVE COURSES								
1.	Foreign language	foreign language classes	30	Graded Pass			2	SJO
SPECIALISATION COURSES (Student choose one specialisation)								
<i>Specialisation: programming and information processing</i>								
1.	Data protection	lecture	30	Graded Pass	1	30	5	dr Viktor Melnyk
		laboratory	30	Graded Pass	2	60		
<i>Specialisation: computer graphics and multimedia</i>								
1.	Mathematical basics for computer graphics	lecture	30	Graded Pass	1	30	5	<i>suspended</i>
		laboratory	30	Graded Pass	1	30		

NUMBER OF TEACHING HOURS PER SEMESTER PER STUDENT:	360
ECTS POINTS PER SEMESTER PER STUDENT:	29

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21

Year II Semester IV

COMPULSORY COURSES								
No.	Course name	Type of class	Number of teaching hours	Form of assessment	Number of groups	Total hours	ECTS Points	Course instructor
1.	Algorithms and data structures	lecture	30	Exam	1	30	5	dr Michał Horodelski
		laboratory	30	Graded Pass	2	60		
2.	Artificial intelligence	lecture	30	Exam	1	30	5	dr hab. Ryszard Kozera
		laboratory	30	Graded Pass	2	60		dr Michał Horodelski
3.	Object-oriented programming II	lecture	30	Exam	1	30	5	dr Dorota Pylak
		laboratory	30	Graded Pass	2	60		mgr Sara Jurczyk-Zielińska
4.	Project management	lecture	15	Exam	1	15	3	dr inż. Rafał Lizut
		laboratory	30	Graded Pass	2	60		
5.	Statistical analysis of data	lecture	30	Exam	1	30	5	dr Małgorzata Nowak-Kępczyk
		laboratory	30	Graded Pass	2	60		dr Kamil Powroźnik
ELECTIVE COURSES								
1.	Foreign language	foreign language classes	30	Graded Pass			2	SJO
		exam		Exam			1	
SPECIALISATION COURSES (Student choose one specialisation)								
<i>Specialisation: programming and information processing</i>								
1.	Internet applications development	tutorial	30	Graded Pass	1	30	5	<i>umowa cywilnoprawna</i>
		laboratory	30	Graded Pass	2	60		
<i>Specialisation: computer graphics and multimedia</i>								
1.	Methods and algorithms for computer graphics	lecture	30	Graded Pass	1	30	5	<i>suspended</i>
		laboratory	30	Graded Pass	1	30		

* student choose practical placement – 3 weeks (120 h) during summer holiday (course credit in 5th semester)

NUMBER OF TEACHING HOURS PER SEMESTER PER STUDENT:	375
ECTS POINTS PER SEMESTER PER STUDENT:	31

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Academic year 2023/2024 – cycle from academic year 2021/2022

Predicted number of students starting the cycle 8

Year III Semester V

COMPULSORY COURSES								
No.	Course name	Type of class	Number of teaching hours	Form of assessment	Number of groups	Total hours	ECTS Points	Course instructor
1.	Algorithms and computational complexity	lecture	15	Exam	1	15	3	dr Paweł Wójcik
		laboratory	15	Graded Pass	1	15		
2.	Ethics	lecture	30	Exam	1	30	2	prof. dr hab. Jan Kłos
3.	Optimization methods	lecture	15	Exam	1	15	3	dr Małgorzata Nowak-Kępczyk
		laboratory	15	Graded Pass	1	15		
4.	Software engineering	lecture	30	Exam	1	30	5	dr inż. Rafał Lizut
		laboratory	30	Graded Pass	1	30		
ELECTIVE COURSES								
1.	Laboratory of programming*	laboratory	30	Graded Pass	1	30	3	<i>according to the list</i>
2.	Seminar**	seminar	30	Pass	1	30	2	<i>according to the list</i>
3.	Practical placement	practical placement	120	Pass			4	<i>according to the list</i>
SPECIALISATION COURSES (Student choose one specialisation)								
<i>Specialisation: programming and information processing</i>								
1.	Graph and network theory	lecture	30	Graded Pass	1	30	5	dr Małgorzata Nowak-Kępczyk
		laboratory	30	Graded Pass	1	30		
2.	Web services programming	laboratory	30	Graded Pass	1	30	3	<i>umowa cywilnoprawna</i>
<i>Specialisation: computer graphics and multimedia</i>								
1.	Internet graphic design	laboratory	30	Graded Pass	1	30	3	<i>suspended</i>
2.	Multimedia programming	lecture	30	Graded Pass	1	30	5	<i>suspended</i>
		laboratory	30	Graded Pass	1	30		

NUMBER OF TEACHING HOURS PER SEMESTER PER STUDENT:	300
ECTS POINTS PER SEMESTER PER STUDENT:	30

* student choose 1 laboratory

** student choose 1 seminar

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Year III Semester VI

COMPULSORY COURSES								
No.	Course name	Type of class	Number of teaching hours	Form of assessment	Number of groups	Total hours	ECTS Points	Course instructor
1.	Python language programming	lecture	15	Exam	1	15	3	dr Dorota Pylak
		laboratory	15	Graded Pass	1	15		
ELECTIVE COURSES								
1.	Laboratory of programming*	laboratory	30	Graded Pass	1	30	3	<i>according to the list</i>
2.	Programming project**	laboratory	30	Pass	1	30	3	<i>according to the list</i>
3.	Seminar***	seminar	30	Pass	1	30	2	<i>according to the list</i>
4.	BA project and preparation for a diploma examination	assignment		Pass			10	
SPECIALISATION COURSES (Student choose one specialisation)								
<i>Specialisation: programming and information processing</i>								
1.	Databases II	lecture	30	Graded Pass	1	30	6	dr Andrzej Michalski
		laboratory	30	Graded Pass	1	30		
2.	Practice of programming	laboratory	30	Graded Pass	1	30	3	mgr inż. Kamil Zieliński
<i>Specialisation: computer graphics and multimedia</i>								
1.	Computer image analysis	lecture	30	Graded Pass	1	30	6	<i>suspended</i>
		laboratory	30	Graded Pass	1	30		
2.	Computer animation	laboratory	30	Graded Pass	1	30	3	<i>suspended</i>

NUMBER OF TEACHING HOURS PER SEMESTER PER STUDENT:	210
ECTS POINTS PER SEMESTER PER STUDENT:	30

* student choose 1 laboratory

**student choose 1 programming project

*** student choose seminar, student is required to prepare BA project