Programme Plan Programme, level of studies INFORMATICS (BA DEGREE STUDIES) Academic Year 2022/2023

Year I Semester I

Predicted number of students in the semester

			COMPL	JLSORY COURS	SES			
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. Anatoliy Melnyk,
1.		laboratory	15	Graded Pass	1	15	3	prof. dr hab. Anatoliy Melnyk
2.	Computer networks and Internet	lecture	15	Exam	1	15	5	dr Marcin Płonkowski
۷.	Computer networks and internet	laboratory	30	Graded Pass	1	30	3	dr Marcin Płonkowski
3.	Introduction to computer science	lecture	30	Exam	1	30	7	Dr Dorota Pylak
٠,	introduction to computer science	laboratory	45	Graded Pass	1	45	,	mgr Sara Jurczyk-Zielińska
4.	Introduction to differential and integral calculus	lecture	30	Exam	1	30	5	dr Wiesław Główczyński
ŕ	introduction to differential and integral calculus	laboratory	30	Graded Pass	1	30	3	mgr Maciej Parol
5.	Linear algebra	lecture	15	Exam	1	15	5	dr Grzegorz Dymek
۶.	Linear algebra	laboratory	30	Graded Pass	1	30	3	dr Grzegorz Dymek
6.	Logic	lecture	10	Exam	1	10	2	dr Piotr Lipski
0.		class	15	Graded Pass	1	15	2	dr Marcin Czakon
7.	Protection of intellectual property	lecture	15	Graded Pass	1	15	1	dr Krzysztof Dobieżyński
			ELEC	TIVE COURSES	5			
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 Plan Programme, level of studies INFORMATICS (BA DEGREE STUDIES) Academic Year 2022/2023

Year I Semester II

Predicted number of students in the semester

	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	
1.	Algorithms of Humerical analysis	laboratory	15	Graded Pass	1	15		dr Małgorzata Nowak-Kępczyk	
2.	Analytic geometry	lecture	15	Exam	1	15	3	dr Grzegorz Dymek	
۷.	Analytic geometry	laboratory	15	Graded Pass	1	15		dr Grzegorz Dymek	
3.	Computer graphics	laboratory	15	Graded Pass	1	15	2	dr Armen Grigoryan	
1	Discrete mathematics*	lecture	30	Exam	1	30	5	dr Armen Grigoryan	
4.	Discrete mathematics -	laboratory	30	Graded Pass	1	30	5	dr Armen Grigoryan	
5.	Entrepreneurship	workshops	15	Graded Pass	1	15	1	prof. dr hab. Tomasz Stuczyński	
6.	Fundamentals of algorithms and programming	lecture	30	Exam	1	30	6	Dr Dorota Pylak	
0.	i unuamentais or algorithms and programming	laboratory	30	Graded Pass	1	30		mgr Sara Jurczyk-Zielińska	
7.	Operating systems	lecture	15	Exam	1	15	4	dr Viktor Melnyk, prof. KUL	
/.	Operating systems	laboratory	30	Graded Pass	1	30		dr Viktor Melnyk, prof. KUL	
8.	Tutoring	workshops	15	Graded Pass	1	15	1	mgr Patrycja Jędrzejewska-Rzezak	
9.	Websites design	laboratory	30	Graded Pass	1	30	3	umowa cywilnoprawna	
				ELECTIVE C	OURSES				
1.	Foreign language	foreign language classes	30	Graded Pass			2	SJO	
2.	Physical education	class	30	Pass			0	SWFiS	

^{*} Joint course with Mathematics

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

Programme Plan

Programme, level of studies INFORMATICS (BA DEGREE STUDIES)

Academic Year 2022/2023 – cycle 2021/2022

Year II Semester III

Predicted number of students in the semester

				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
1.	Computer modeling and simulations	laboratory	30	Graded Pass	1	30	3	dr hab. Aliaksandr Chychuryn
2.	Databases I*	lecture	30	Exam	1	30	5	dr Joanna Kapusta
۷.	Databases i	laboratory	30	Graded Pass	1	30	J	dr Joanna Kapusta
3.	Foundations of probabilistic methods	lecture	30	Exam	1	30	5	Dr hab. August Zapała
3.	Foundations of probabilistic methods	class	30	Graded Pass	1	30	3	Dr hab. August Zapała
4.	History of philosophy	lecture	45	Exam	1	45	3	dr Maksymilian Roszyk
5.	Object-oriented programming*	lecture	30	Exam	1	30	5	Dr Dorota Pylak
٥.	Object-oriented programming	laboratory	30	Graded Pass	1	30	J	mgr Sara Jurczyk-Zielińska
				ELECTIVE C	OURSES			
1.	Foreign language	foreign language classes	30	Graded Pass			2	SJO
		SPECIALI	SATION COU	RSES (Student	choose one	specjalis	ation)	
		Specie	alisation: pro	gramming and	informatio	n process	ing	
1	Data protection	lecture	30	Graded Pass	1	30	5	dr Viktor Melnyk, prof. KUL
1.	Data protection	laboratory	30	Graded Pass	1	30	3	dr Viktor Melnyk, prof. KUL
		Sp	ecialisation:	computer grap	hics and m	ultimedia		
1	Mathematical basics for computer graphics*	lecture	30	Graded Pass	1	30	5	suspended
1.	ividule matical basics for computer graphics.	laboratory	30	Graded Pass	1	30	э 	suspended

^{*}Joint course with Mathematics

NUMBER OF TEACHING HOURS PER SEMESTER PER STUDENT:	375
ECTS POINTS PER SEMESTER PER STUDENT:	30

Programme Plan Programme, level of studies INFORMATICS (BA DEGREE STUDIES) Academic Year 2022/2023 – cycle 2021/2022

Year II Semester IV

Predicted number of students in the semester

	COMPULSORY COURSES									
No.	Course name	Type of class	Number of teaching hours		Number of groups	Total hours	ECTS Points	Course instructor		
1.	Algorithms and data structures	lecture	30	Exam	1	30	5	dr Michał Horodelski		
1.	Algorithms and data structures	laboratory	30	Graded Pass	1	30	,	dr Michał Horodelski		
2.	Artificial intelligence*	lecture	30	Exam	1	30	5	dr hab. Ryszard Kozera		
۷.	Artificial intelligence	laboratory	30	Graded Pass	1	30	,	dr Michał Horodelski		
3.	Object-oriented programming II	lecture	30	Exam	1	30	4	Dr Dorota Pylak		
٥.		laboratory	30	Graded Pass	1	30	†	mgr Sara Jurczyk-Zielińska		
4.	Project management	lecture	15	Exam	1	15	3	dr inż. Rafał Lizut		
<u> </u>	Troject management	laboratory	30	Graded Pass	1	30		dr inż. Rafał Lizut		
5.	Statistical analysis of data*	lecture	30	Exam	1	30	5	dr Kamil Powroźnik		
	Statistical analysis of auta	laboratory	30	Graded Pass	1	30		dr Kamil Powroźnik		
			ELEC	TIVE COURSES						
1.	Foreign language	foreign language classes	30	Graded Pass			2	OLZ		
		exam		Exam			1			
		SPECIALISATION C	OURSES (St	udent choose	one specj	alisatior	1)			
		Specialisation: p	programmir	ng and informa	ition proc	essing				
1.	Internet applications development	tutorial	30	Graded Pass	1	30	5	umowa cywilnoprawna		
	memer applications development	laboratory	30	Graded Pass	1	30		umowa cywilnoprawna		
		Specialisatio	n: compute	r graphics and	multime	dia				
1.	Methods and algorithms for computer graphics	lecture	30	Graded Pass	1	30	5	suspended		
1.	interious and algorithms for computer graphics	laboratory	30	Graded Pass	1	30		suspended		

^{**} 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:	30

^{*} Joint course with Mathematics

annex 4 to programme documentation

Programme Plan Programme, level of studies INFORMATICS (BA DEGREE STUDIES) Academic Year 2022/2023 – cycle 2020/2021

Year III Semester V Predicted number of students in the semester

	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		
1.	Algorithms and computational complexity	laboratory	15	Graded Pass	1	15	3	dr Paweł Wójcik		
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		
3.	optimization methods	laboratory	15	Graded Pass	1	15	3	dr Małgorzata Nowak-Kępczyk		
4.	Software engineering	lecture	30	Exam	1	30	5	dr inż. Rafał Lizut		
4.	Software engineering	laboratory	30	Graded Pass	1	30	3	dr inż. Rafał Lizut		
			E	LECTIVE COU	RSES					
1.	Laboratory of programming*	laboratory	30	Graded Pass	1	30	3	according to the list		
2.	Seminar**	seminar	30	Pass	1	30	2	according to the list		
3.	Practical placement	practical placement	120	Pass			4	dr inż. Rafał Lizut		
	SPECIALISATION COURSES (Student choose one specjalisation)									
	Specialisation: programming and information processing									
1	Croph and natural, the on ***	lecture	30	Graded Pass	1	30	_	dr Małgorzata Nowak-Kępczyk		
1.	Graph and network theory***	laboratory	30	Graded Pass	1	30	5	dr Małgorzata Nowak-Kępczyk		
2.	Web services programming	laboratory	30	Graded Pass	1	30	3	dr Andrzej Michalski		

	Specialisation: computer graphics and multimedia											
1	Multimedia programming	lecture	30	Graded Pass	1	30	-	suspended				
1.	Ividitimedia programming	laboratory	30	Graded Pass	1	30	J					
2.	Internet graphic design	laboratory	30	Graded Pass	1	30	3	suspended				

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

^{*} student choose 1 laboratory

^{***} joint course with Mathematics

Laboratory of programming									
1.	Laboratory of programming: applications in basic programming environments	laboratory	30	Graded Pass	1	30	3	suspended	
2.	Laboratory of programming: web frameworks	laboratory	30	Graded Pass	1	30	3	mgr Sara Jurczyk-Zielińska	

** student choose 1 seminar

	Seminars									
1.	Modern approaches to software development	seminar	30	Pass	1	30	2	dr inż. Rafał Lizut		
2.	Multimedia applications	seminar	30	Pass	1	30	2	suspended		
3.	Network technologies of data protection	seminar	30	Pass	1	30	2	suspended		

annex 4 to programme documentation

Programme Plan Programme, level of studies INFORMATICS (BA DEGREE STUDIES) Academic Year 2022/2023 – cycle 2020/2021

Year III Semester VI Predicted number of students in the

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Predicted number of students in the semester

	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.	Project management	lecture	15	Exam	1	15	3	dr inż. Rafał Lizut			
1.	Froject management	laboratory	15	Graded Pass	1	15	3	dr inż. Rafał Lizut			
	ELECTIVE COURSES										
1.	Labolatory of programming*	laboratory	30	Graded Pass	1	30	3	according to the list			
2.	Programming project**	laboratory	30	Pass	1	30	3	according to the list			
3.	Seminar***	seminar	30	Pass	1	30	2	according to the list			
4.	BA project and preparation for a diploma examination	assignment		Pass			10	according to the list			
		SPECIAL	ISATION COL	JRSES (Studen	t choose o	ne specja	lisation				
		Specie	alisation: pro	ogramming an	d informat	ion proce	essing				
1.	Databases II	lecture	30	Graded Pass	1	30	6	dr Andrzej Michalski			
1.	Databases II	laboratory	30	Graded Pass	1	30		mgr Maciej Parol			
2.	Practice of programming	laboratory	30	Graded Pass	1	30	3	mgr inż. Kamil Jurczyk-Zieliński			
Specialisation: computer graphics and multimedia											
1.	Computer animation	laboratory	30	Graded Pass	1	30	3	suspended			
2.	Computer image analysis	lecture	30	Graded Pass	1	30	6	curpended			
2.	Computer image analysis	laboratory	30	Graded Pass	1	30		suspended			

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

* student choose 1 laboratory

Laboratory of programming								
1.	Laboratory of programming: applications in basic programming environments	laboratory	30	Graded Pass	1	30	3	suspended
2.	Laboratory of programming: web frameworks	laboratory	30	Graded Pass	1	30	3	mgr Sara Jurczyk-Zielińska

**student choose 1 programming project

	Programming project									
1.	Programming project: programming, algorithms and databases	laboratory	30	Pass	1	30	3	dr inż. Rafał Lizut		
2.	Programming project: graphics programming	laboratory	30	Pass	1	30	3	suspended		
2.	Programming project: network and internet technology	laboratory	30	Pass	1	30	3	suspended		

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

	Seminars									
1.	Modern approaches to software development	seminar	30	Pass	1	30	2	dr inż. Rafał Lizut		
2.	Multimedia applications	seminar	30	Pass	1	30	2	suspended		
3.	Network technologies of data protection	seminar	30	Pass	1	30	2	suspended		