Predicted number of students starting the cycle

30

Year I Semester I

			CON	IPULSORY CO	URSES			
No.	Course name	Type of class	Number of teaching hours	Form of assessment	Number of groups	Total hours	ECTS Points	Reference to programme learning outcomes
1.	Computer architecture	lecture	15	Exam	1	15	3	K_W01,K_U04, K_U06, K_U30, K_K01
1.		laboratory	15	Graded Pass	2	30	3	K_W01,K_004, K_000, K_030, K_K01
2.	Computer networks and Internet	lecture	15	Exam	1	15	5	K_W01, K_W04, K_U02, K_U04, K_U06, K_U15,
۷.	Computer networks and internet	laboratory	30	Graded Pass	2	60	J	K_U17, K_U24, K_U30, K_K01, K_K02
3.	Introduction to computer science	lecture	30	Exam	1	30	7	K_W01, K_W03, K_W06, K_U02, K_U04, K_U06,
٥.	introduction to computer science	laboratory	45	Graded Pass	2	90	,	K_U07, K_U08, K_U11, K_U17, K_K01, K_K02
4.	Introduction to differential and integral calculus	lecture	30	Exam	1	30	5	K_W02, K_W05, K_U03, K_U21, K_U22, K_K01
	introduction to unreferritar and integral calculus	laboratory	30	Graded Pass	2	60		
5.	Linear algebra	lecture	15	Exam	1	15	5	K_W02, K_U21, K_K01
J.	Elifedi digesia	laboratory	30	Graded Pass	2	60	3	K_W02, K_021, K_K01
6.	Logic	lecture	10	Exam	1	10	2	zgodnie z uchwałą Senatu KUL
0.	Logic	class	15	Graded Pass	2	30		zgodine z denwarą Senata Koż
7.	Protection of intellectual property	lecture	15	Graded Pass	1	15	1	K_W08
			E	LECTIVE COUR	RSES			
1.	Foreign language	foreign language classes	30	Graded Pass			2	zgodnie z uchwałą Senatu KUL
2.	Physical education	class	30	Pass			0	zgodnie z uchwałą Senatu KUL

^{*} 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

Predicted number of students starting the cycle

30

Year I Semester II

				COMPULSOR	Y COURSES			
No.	Course name	Type of class	Number of teaching hours	Form of assessment	Number of groups	Total hours	ECTS Points	Reference to programme learning outcomes
1	Algorithms of numerical analysis	lecture	15	Exam	1	15	3	K_W03, K_W06, K_U04, K_U07, K_U08, K_U11, K_U17,
	Algorithms of Humerical analysis	laboratory	15	Graded Pass	2	30		K_U20, K_U22, K_K01
2.	Analytic geometry	lecture	15	Exam	1	15	3	K_W02, K_U21, K_U22, K_K01
۷.	Analytic geometry	laboratory	15	Graded Pass	2	30		K_W02, K_021, K_022, K_K01
3.	Computer graphics	laboratory	15	Graded Pass	2	30	2	K_W11, K_U01, K_U02, K_U04, K_U17, K_U25, K_K01, K_K02
4	Discrete mathematics	lecture	30	Exam	1	30	Г	V WOO V 1121 V 1122 V VO1
4.	Discrete mathematics	laboratory	30	Graded Pass	2	60	5	K_W09, K_U21, K_U22, K_K01
5.	Entrepreneurship	workshops	15	Graded Pass	2	30	1	zgodnie z uchwałą Senatu KUL
		lecture	30	Exam	1	30	_	K_W01, K_W03, K_W06, K_U02, K_U04, K_U07, K_U08, K_U09, K_U11, K_U12, K_U17, K_K01, K_K02
6.	Fundamentals of algorithms and programming	laboratory	30	Graded Pass	2	60	6	
7.	Operating systems	lecture	15	Exam	1	15	4	K_W01, K_W04, K_U01, K_U02, K_U04, K_U17, K_U19,
	Operating systems	laboratory	30	Graded Pass	2	60	4	K_K01, K_K02, K_K04
8.	Tutoring	workshops	15	Graded Pass	2	30	1	zgodnie z uchwałą Senatu KUL
9.	Websites design	laboratory	30	Graded Pass	2	60	3	K_W01, K_W06, K_U02, K_U04, K_U05, K_U17, K_K01, K_K04
				ELECTIVE (OURSES			
1.	Foreign language	foreign language classes	30	Graded Pass			2	zgodnie z uchwałą Senatu KUL
2.	Physical education	class	30	Pass			0	zgodnie z uchwałą Senatu KUL

IUMBER OF TEACHING HOURS PER SEMESTER PER STUDENT:	360
CTS POINTS PER SEMESTER PER STUDENT:	30

Programme curriculum

Programme, level of studies INFORMATICS (BA DEGREE STUDIES)

Cycle from academic year 2022/2023

Predicted number of students starting the cycle

30

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	Reference to programme learning outcomes	
1.	Computer modeling and simulations	lecture	30	Exam	1	30	5	K_W01, K_W05, K_W06, K_W11, K_U03, K_U06, K_U11,	
1.	Computer modeling and simulations	laboratory	30	Graded Pass	2	60	י	K_U17, K_K01	
2	Databases I	lecture	30	Exam	1	30	5	K_W01, K_W04, K_W10, K_U02, K_U04, K_U14, K_U17,	
۷.	Databases I	laboratory	30	Graded Pass	2	60	ס	K_U22, K_U23, K_U26, K_U27, K_U30, K_K01, K_K02	
2	Foundations of probabilistic methods	lecture	30	Exam	1	30	5	K W09, K U22, K K01	
3.	Podridations of probabilistic methods	laboratory	30	Graded Pass	2	60	,	K_W09, K_022, K_K01	
4.	History of philosophy	lecture	30	Exam	1	30	2	zgodnie z uchwałą Senatu KUL	
_	Object exicuted programming	lecture	30	Exam	1	30	5	K_W01, K_W03,K_W06, K_U04, K_U06, K_U07, K_U08,	
5.	Object-oriented programming	laboratory	30	Graded Pass	2	60	5	K_U10, K_U11, K_U12, K_U17, K_K01	
				ELECTIVE CO	URSES				
1.	Foreign language	foreign language classes	30	Graded Pass			2	zgodnie z uchwałą Senatu KUL	
		SPECIALIS	SATION COUR	RSES (Student c	hoose one	specjalisa	ation)		
		Specia	lisation: prog	ramming and i	informatio	n processi	ing		
1	Data protection	lecture	30	Graded Pass	1	30	5	K_W03, K_W04, K_W06, K_W10, K_U02, K_K01, K_K05	
1.	Data protection	laboratory	30	Graded Pass	2	60	,	K_VVO3, K_VVO4, K_VVO0, K_VV10, K_O02, K_K01, K_K03	
		Spe	ecialisation: c	omputer graph	ics and mu	ıltimedia			
1	Mathematical basics for computer graphics	lecture	30	Graded Pass	1	30	5	K W03 K W11 K H03 K K01	
1.	iviatile matical pasies for computer graphics	laboratory	30	Graded Pass	1	30	J	K_W02, K_W11, K_U02, K_K01	

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

Predicted number of students starting the cycle

30

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	Reference to programme learning outcomes		
1.	Algorithms and data structures	lecture	30	Exam	1	30	5	K_W01, K_W03, K_W06, K_U06, K_U08, K_U10,		
1.	Algorithms and data structures	laboratory	30	Graded Pass	2	60	5	K_U11, K_U12, K_U17, K_K01, K_K02		
2.	Artificial intelligence	lecture	30	Exam	1	30	5	K_W01, K_W10, K_W06, K_U02, K_U04, K_U09,		
۷.	Artificial intelligence	laboratory	30	Graded Pass	2	60	5	K_U10, K_U16, K_U23, K_K01		
3.	Object-oriented programming II	lecture	30	Exam	1	30	5	K_W01, K_W03,K_W06, K_U04, K_U07, K_U08,		
٥.		laboratory	30	Graded Pass	2	60	5	K_U10, K_U11, K_U12, K_U17, K_K01		
4.	Project management	lecture	15	Exam	1	15	3	K_W01, K_W04, K_W06, K_U01, K_U04, K_K01,		
4.		laboratory	30	Graded Pass	2	60	,	K_U17, K_K02, K_K04, K_K05		
5.	Statistical analysis of data	lecture	30	Exam	1	30	5	K W09, K U22, K U28		
J.	otation analysis or data	laboratory	30	Graded Pass	Pass 2 60					
			ELEC	TIVE COURSES	S					
1.	Foreign language	foreign language classes	30	Graded Pass			2	zgodnie z uchwałą Senatu KUL		
		exam		Exam			1			
		SPECIALISATION	COURSES (S	tudent choose	one specja	alisation	1)			
		Specialisation	: programmi	ing and inform	ation proc	essing				
1.	Internet applications development	tutorial	30	Graded Pass	1	30	5	K W06, K U02, K U04, K K01		
i		laboratory	30	Graded Pass	2	60)	,,,		
		Specialisat	ion: comput	er graphics an	d multime	dia				

1	Methods and algorithms for computer graphics	lecture	30	Graded Pass	1	30	5	K W11. K U02. K U04. K U25. K K01
1.	liviethous and algorithms for computer graphics	laboratory	30	Graded Pass	1	30	,	K_W11, K_002, K_004, K_023, K_K01

^{*} 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

Predicted number of students starting the cycle

30

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	Reference to programme learning outcomes		
1.	Ethics	lecture	25	Exam	1	25	1	zgodnie z uchwałą Senatu KUL		
2.	Marriage and family in Christian anthropology	tutorial	25	Graded Pass	1	25	2	zgodnie z uchwałą Senatu KUL		
3.	Optimization methods	lecture	15	Exam	1	15	3	K_W01, K_W03, K_W06, K_U07, K_U11, K_U20,		
Э.		laboratory	15	Graded Pass	2	30	3	K_U22, K_K01, K_K02		
1	Python language programming	lecture	15	Exam	1	15	3	K_W01, K_W06, K_U04, K_U08 K_U11, K_U17,		
-	ythorranguage programming	laboratory	15	Graded Pass	2	30	3	K_K01, K_K02, K_K05, K_K06		
5.	Software engineering	lecture	30	Exam	1	30	5	K_W04, K_W06, K_U02, K_U04, K_U13, K_U14, K_U17, K_U23, K_U29, K_U30, K_K01, K_K02,		
		laboratory	30	Graded Pass	2	60		K_K04, K_K05		
				ELECTIVE COU	RSES					
1.	Laboratory of programming*	laboratory	30	Graded Pass	2	60	3	K_W06, K_W08, K_U08, K_U17, K_K06		
2.	Seminar**	seminar	30	Pass	1	30	2	K_W08, K_U02, K_U17, K_U18, K_U23, K_U29,		
	Serima	Sciiiiiai	30	1 433	1			K_U30, K_K01, K_K03, K_K05		
3.	Practical placement	practical	120	Pass			4	K_ W07, K_ W08, K_U01, K_U02, K_U04, K_U17,		
	Tractical placement	placement		. 433				K_K01, K_K02, K_K03, K_K04, K_K06		
		SPECIALISA [*]	TION COURSI	ES (Student ch	oose one sp	ecjalisati	on)			
		Specialis	ation: progra	mming and in	formation p	processing	9			
1.	Graph and network theory	lecture	30	Graded Pass	1	30		K_W03, K_W04, K_W06, K_U02, K_U04, K_K01		
	oraph and network theory	laboratory	30	Graded Pass	2	60		,,,,,,,		
2.	Web services programming	laboratory	30	Graded Pass	2	60	3	K_W06, K_U02, K_K01, K_K05		

	Specialisation: computer graphics and multimedia										
1.	Internet graphic design	laboratory	30	Graded Pass	1	30	3	K_W11, K_U02, K_U04, K_U25, K_K01			
2	Multimedia programming	lecture	30	Graded Pass	1	30	5	K_W03, K_W04, K_W11, K_W06, K_U02, K_U04,			
۷.	Ividitimedia programming	laboratory	30	Graded Pass	1	30	<u> </u>	K_K01			

^{*} student choose 1 laboratory

^{**} student choose 1 seminar

NUMBER OF TEACHING HOURS PER SEMESTER PER STUDENT:	320
ECTS POINTS PER SEMESTER PER STUDENT:	31

Predicted number of students starting the cycle

3

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	Reference to programme learning outcomes			
1.	Algorithms and computational complexity	lecture	15	Exam	1	15	3	K_W01, K_W03, K_W06, K_U04, K_U07, K_U08, K_U09,			
1.	Algorithms and computational complexity	laboratory	15	Graded Pass	2	30	J	K_U17, K_U22, K_K01, K_K02			
	ELECTIVE COURSES										
1.	Labolatory of programming*	laboratory	30	Graded Pass	2	60	3	K_W06, K_W08, K_U08, K_U17, K_K06			
2.	Programming project**	laboratory	30	Pass	3	90	3	K_W08, K_U02, K_U04, K_U08, K_U17, K_U23, K_U30			
3.	Seminar***	seminar	30	Pass	3	90	2	K_W08, K_U02, K_U17, K_U18, K_U23, K_U29, K_U30,			
4.	BA project and preparation for a diploma examination	assignment		Pass			10	K_K01, K_K03, K_K05			
	SPECIALISATION COURSES (Student choose one specjalisation)										
		Specia	alisation: pro	gramming an	d informati	on proces	ssing				
1.	Databases II	lecture	30	Graded Pass	1	30	5	K W10, K U02, K U04, K U26, K U27, K K01			
1.	Databases II	laboratory	30	Graded Pass	2	60	5	K_W10, K_002, K_004, K_020, K_027, K_K01			
2.	Practice of programming	laboratory	30	Graded Pass	2	60	3	K_W04, K_W06, K_U02, K_U04,K_U13, K_K01, K_K06			
	Specialisation: computer graphics and multimedia										
1.	Computer image analysis	lecture	30	Graded Pass	1	30	5	K_W06, K_W04, K_W03, K_W11, K_U02, K_U04, K_K01			
1.		laboratory	30	Graded Pass	1	30		N_VVOO, N_VVO4, N_VVO3, N_VV11, N_OO2, N_OO4, N_NO1			
2.	Computer animation	laboratory	30	Graded Pass	1	30	3	K_W11, K_U02, K_K01			

^{*} student choose 1 laboratory

- ** student choose 1 programming project

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

NUMBER OF TEACHING HOURS PER	210
SEMESTER PER STUDENT:	210
ECTS POINTS PER SEMESTER PER STUDENT:	29

NUMBER OF TEACHING HOURS PER CYCLE	
PER STUDENT:	1980
ECTS POINTS PER CYCLE PER STUDENT:	180