



**Programme curriculum**  
**Programme, level of studies INFORMATICS (BA DEGREE STUDIES)**  
**Cycle from academic year 2024/2025**

**Predicted number of students starting the cycle**  
**Year I Semester II**

**30**

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
<b>COMPULSORY COURSES</b>								
1.	Analytic geometry	lecture	15	Exam	1	15	3	K_W02, K_U03, K_U21, K_U22, K_K01
		laboratory	15	Graded Pass	2	30		
2.	Developers tools	laboratory	15	Graded Pass	2	30	2	K_W01, K_W04, K_U01, K_U2, K_U23, K_K01, K_K05
3.	Discrete mathematics	lecture	30	Exam	1	30	5	K_W09, K_U21, K_U22, K_K01
		laboratory	30	Graded Pass	1	30		
4.	Entrepreneurship	workshops	15	Graded Pass	2	30	1	<i>zgodnie z uchwałą Senatu KUL</i>
5.	Fundamentals of algorithms and programming	lecture	30	Exam	1	30	6	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
		laboratory	30	Graded Pass	2	60		
6.	Introduction to tutoring	workshops	15	Graded Pass	2	30	1	<i>zgodnie z uchwałą Senatu KUL</i>
7.	Operating systems	lecture	15	Exam	1	15	4	K_W01, K_W04, K_U01, K_U02, K_U04, K_U17, K_U19, K_K01, K_K02, K_K04
		laboratory	30	Graded Pass	2	60		
8.	Python language programming	lecture	15	Exam	1	15	3	K_W01, K_W06, K_U04, K_U08, K_U11, K_U17, K_K01, K_K02, K_K05, K_K06
		laboratory	15	Graded Pass	2	30		
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
<b>ELECTIVE COURSES</b>								
1.	Foreign language	foreign language	30	Graded Pass			2	<i>zgodnie z uchwałą Senatu KUL</i>
2.	Physical education	class	30	Pass			0	<i>zgodnie z uchwałą Senatu KUL</i>

<b>NUMBER OF TEACHING HOURS PER SEMESTER PER STUDENT:</b>	<b>360</b>
<b>ECTS POINTS PER SEMESTER PER STUDENT:</b>	<b>30</b>

**Programme curriculum**  
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**Cycle from academic year 2024/2025**

**Predicted number of students starting the cycle**  
**Year II Semester III**

**30**

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
<b>COMPULSORY COURSES</b>								
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, K_U17, K_K01
		laboratory	30	Graded Pass	2	60		
2.	Databases I	lecture	30	Exam	1	30	5	K_W01, K_W04, K_W10, K_U02, K_U04, K_U14, K_U17, K_U22, K_U23, K_U26, K_U27, K_U30, K_K01, K_K02
		laboratory	30	Graded Pass	2	60		
3.	Foundations of probabilistic methods	lecture	30	Exam	1	30	5	K_W09, K_U22, K_K01
		laboratory	30	Graded Pass	1	30		
4.	Object-oriented programming	lecture	30	Exam	1	30	5	K_W01, K_W03, K_W06, K_U04, K_U06, K_U07, K_U08, K_U10, K_U11, K_U12, K_U17, K_K01
		laboratory	30	Graded Pass	2	60		
<b>ELECTIVE COURSES</b>								
1.	Foreign language	foreign language classes	30	Graded Pass			2	<i>zgodnie z uchwałą Senatu KUL</i>
2.	Obligatory course in the field of history of philosophy*	lecture	30	Exam			2	<i>zgodnie z uchwałą Senatu KUL</i>
<b>SPECIALISATION COURSES (Student choose one specialisation)</b>								
<i>Specialisation: programming and information processing</i>								
1.	Data protection and cybersecurity	lecture	30	Graded Pass	1	30	5	K_W03, K_W04, K_W06, K_W10, K_U02, K_K01, K_K05
		laboratory	30	Graded Pass	1	30		
<i>Specialisation: computer graphics and multimedia</i>								
1.	Mathematical basics for computer graphics	lecture	30	Graded Pass	1	30	5	K_W02, K_W11, K_U02, K_K01
		laboratory	30	Graded Pass	1	30		

\* student choose 1 lecture (list of optional courses in the annex no. 9a)

<b>NUMBER OF TEACHING HOURS PER SEMESTER PER STUDENT:</b>	<b>360</b>
<b>ECTS POINTS PER SEMESTER PER STUDENT:</b>	<b>29</b>

**Programme curriculum**  
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**Cycle from academic year 2024/2025**

**Predicted number of students starting the cycle**  
**Year II Semester IV**

**30**

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
<b>COMPULSORY COURSES</b>								
1.	Algorithms and data structures	lecture	30	Exam	1	30	5	K_W01, K_W03, K_W06, K_U06, K_U08, K_U10, K_U11, K_U12, K_U17, K_K01, K_K02
		laboratory	30	Graded Pass	2	60		
2.	Artificial intelligence	lecture	30	Exam	1	30	5	K_W01, K_W10, K_U02, K_U04, K_U09, K_U10, K_U16, K_U23, K_K01
		laboratory	30	Graded Pass	2	60		
3.	Object-oriented programming II	lecture	30	Exam	1	30	5	K_W01, K_W03, K_W06, K_U04, K_U07, K_U08, K_U10, K_U11, K_U12, K_U17, K_K01
		laboratory	30	Graded Pass	2	60		
4.	Project management	lecture	15	Exam	1	15	3	K_W01, K_W04, K_W06, K_U01, K_U04, K_U17, K_K01, K_K02, K_K04, K_K05
		laboratory	30	Graded Pass	2	60		
5.	Statistical analysis of data	lecture	30	Exam	1	30	5	K_W09, K_U22, K_U28
		laboratory	30	Graded Pass	2	60		
<b>ELECTIVE COURSES</b>								
1.	Foreign language	foreign language classes	30	Graded Pass			2	<i>zgodnie z uchwałą Senatu KUL</i>
		exam		Exam			1	
<b>SPECIALISATION COURSES (Student choose one specialisation)</b>								
<b><i>Specialisation: programming and information processing</i></b>								
1.	Internet applications development	tutorial	30	Graded Pass	1	30	5	K_W06, K_U02, K_U04, K_U05, K_K01
		laboratory	30	Graded Pass	1	30		
<b><i>Specialisation: computer graphics and multimedia</i></b>								
1.	Methods and algorithms for computer graphics	lecture	30	Graded Pass	1	30	5	K_W11, K_U02, K_U04, K_U25, K_K01
		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

**Programme curriculum**  
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**Cycle from academic year 2024/2025**

**Predicted number of students starting the cycle**  
**Year III Semester V**

**30**

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
<b>COMPULSORY COURSES</b>								
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, K_U20, K_U22, K_K01
		laboratory	15	Graded Pass	2	30		
2.	Marriage and family in Christian anthropology	tutorial	25	Graded Pass	1	25	2	<i>zgodnie z uchwałą Senatu KUL</i>
3.	Optimization methods	lecture	15	Exam	1	15	3	K_W01, K_W03, K_W06, K_U07, K_U11, K_U20, K_U22, K_K01, K_K02
		laboratory	15	Graded Pass	2	30		
4.	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, K_K04, K_K05
		laboratory	30	Graded Pass	2	60		
<b>ELECTIVE COURSES</b>								
1.	Obligatory course in the field of ethics***	lecture	25	Exam		25	1	<i>zgodnie z uchwałą Senatu KUL</i>
2.	Laboratory of programming*	laboratory	30	Graded Pass	2	60	3	K_W06, K_W08, K_U08, K_U17, K_K06
3.	Seminar**	seminar	30	Pass	3	90	2	K_W08, K_U02, K_U17, K_U18, K_U23, K_U29, K_U30, K_K01, K_K03, K_K05
4.	Practical placement	practical placement	120	Pass			4	K_W07, K_W08, K_U01, K_U02, K_U04, K_U17, K_K01, K_K02, K_K03, K_K04, K_K06
<b>SPECIALISATION COURSES (Student choose one specialisation)</b>								
<i>Specialisation: programming and information processing</i>								
1.	Graph and network theory	lecture	30	Graded Pass	1	30	5	K_W03, K_W04, K_W06, K_U02, K_U04, K_K01
		laboratory	30	Graded Pass	1	30		
2.	Machine learning	laboratory	30	Graded Pass	1	30	3	K_W03, K_W05, K_W06, K_W09, K_W10, K_U02, K_U03, K_U04, K_U06, K_K01, K_K05, K_K06

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

\* student choose 1 laboratory (list of optional courses in the annex no. 9)

\*\* student choose 1 seminar (list of optional courses in the annex no. 9)

\*\*\* student choose 1 lecture (list of optional courses in the annex no. 9a)

<b>NUMBER OF TEACHING HOURS PER SEMESTER PER STUDENT:</b>	<b>320</b>
<b>ECTS POINTS PER SEMESTER PER STUDENT:</b>	<b>31</b>

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**Cycle from academic year 2024/2025**

**Predicted number of students starting the cycle**                      **30**  
**Year III Semester VI**

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
<b>COMPULSORY COURSES</b>								
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, K_U17, K_U22, K_K01, K_K02
		laboratory	15	Graded Pass	2	30		
<b>ELECTIVE COURSES</b>								
1.	Laboratory 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	2	60	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, K_K01, K_K03, K_K05
4.	BA project and preparation for a diploma examination	assignment		Pass			10	
<b>SPECIALISATION COURSES (Student choose one specialisation)</b>								
<i>Specialisation: programming and information processing</i>								
1.	Databases II	lecture	30	Graded Pass	1	30	5	K_W10, K_U02, K_U04, K_U26, K_U27, K_K01
		laboratory	30	Graded Pass	1	30		
2.	Practice of programming	laboratory	30	Graded Pass	1	30	3	K_W04, K_W06, K_U02, K_U04, K_U13, K_K01, K_K06
<i>Specialisation: computer graphics and multimedia</i>								
1.	Computer image analysis	lecture	30	Graded Pass	1	30	5	K_W03, K_W04, K_W06, K_W11, K_U02, K_U04, K_K01
		laboratory	30	Graded Pass	1	30		
2.	Computer animation	laboratory	30	Graded Pass	1	30	3	K_W11, K_U02, K_K01

\* student choose 1 laboratory (list of optional courses in the annex no. 9)

\*\* student choose 1 programming project (list of optional courses in the annex no. 9)

\*\*\* student choose seminar (list of optional courses in the annex no. 9), student is required to prepare BA project

<b>NUMBER OF TEACHING HOURS PER SEMESTER PER STUDENT:</b>	<b>210</b>
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ECTS POINTS PER SEMESTER PER STUDENT:	29
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NUMBER OF TEACHING HOURS PER CYCLE PER STUDENT:	1980
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ECTS POINTS PER CYCLE PER STUDENT:	180
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