

Programme curriculum
 Programme MATHEMATICS (BA DEGREE STUDIES)
 Cycle 2019/2020
 30

Predicted number of students starting the cycle
 Year I Semester I – academic year 2019/2020

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	Introduction to mathematics	lecture	60	Exam	1	60	11	K_W01,K_W02,K_W03,K_W04,K_W05, K_W06,K_U01,K_U02, K_U03,K_U04,K_U05, K_U06,K_U07, K_U08,K_U09,K_U11,K_U36,K_K01,K_K05
		class	60	Graded Pass	1	60		
2	Linear algebra with geometry I	lecture	60	Exam	1	60	11	K_W01,K_W02,K_W03,K_W04,K_W05, K_W07,K_U01,K_U02, K_U03,K_U04,K_U05, K_U06,K_U07,K_U08,K_U17,K_U18,K_U19, K_U36,K_K01,K_K05
		class	60	Graded Pass	1	60		
3	Logic	lecture	15	Exam	1	15	2	According to the resolution of the Senate of the Catholic University of Lublin from April 12, 2012 (714/II/13)
		class	15	Graded Pass	1	15		
4	Introduction to computer science**	lecture	30	Exam	1	30	5	K_W01,K_W04,K_U25,K_U26,K_U27,K_K01
		laboratory	30	Graded Pass	1	30		
ELECTIVE 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	Foreign language	foreign language class	30	Graded Pass	1	30	1	According to the resolution of the Senate of the Catholic University of Lublin from March 28, 2019 (803/II/8)
2	Physical education	class	30	Pass	1	30	0	According to the resolution of the Senate of the Catholic University of Lublin from December 18, 2014 (747/II/5)

* student choose foreign language and physical education

** Joint course with Informatics

NUMBER OF TEACHING HOURS PER SEMESTER PER STUDENT:	390
ECTS POINTS PER SEMESTER PER STUDENT:	30

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Programme curriculum
 Programme MATHEMATICS (BA DEGREE STUDIES)
 Cycle 2019/2020
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Predicted number of students starting the cycle
 Year I Semester II – academic year 2019/2020

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	Calculus I	lecture	60	Exam	1	60	11	K_W01,K_W02,K_W03,K_W04,K_W05, K_W07,K_U01,K_U02,K_U03,K_U04,K_U05, K_U06, K_U07,K_U08, K_U09,K_U10, K_U11,K_U12, K_U13,K_U14, K_U15, K_U36, K_K01, K_K05
		class	60	Graded Pass	1	60		
2	Linear algebra with geometry II	lecture	60	Exam	1	60	11	K_W01,K_W02,K_W03,K_W04,K_W05, K_W07,K_U01,K_U02, K_U03,K_U04,K_U05, K_U06,K_U07,K_U08,K_U16,K_U17,K_U20, K_U23,K_K01,K_K05
		class	60	Graded Pass	1	60		
3	Entrepreneurship	workshop	30	Graded Pass	1	30	2	According to the resolution of the Senate of the Catholic University of Lublin from February 22, 2018 (789/II/5)

ELECTIVE 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	Foreign language	foreign language class	30	Graded Pass	1	30	1	According to the resolution of the Senate of the Catholic University of Lublin from March 28, 2019 (803/II/8)
2	Physical education	class	30	Pass	1	30	0	According to the resolution of the Senate of the Catholic University of Lublin from December 18, 2014 (747/II/5)
3	Elective course I	lecture	30	Exam	1	30	5	K_W01,K_W04,K_U38,K_K02,K_K05
		class (laboratory**)	30	Graded Pass	1	30		

* student choose foreign language, physical education and one elective course (60 h, 5 ECTS)

** Joint course with Informatics

NUMBER OF TEACHING HOURS PER SEMESTER PER STUDENT:	390
ECTS POINTS PER SEMESTER PER STUDENT:	30

Programme curriculum
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Predicted number of students starting the cycle
 Year II Semester III – academic year 2020/2021

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	Calculus II	lecture	60	Exam	1	60	11	K_W01,K_W02,K_W03,K_W04,K_W05, K_W07,K_U01,K_U02,K_U03,K_U04,K_U05, K_U06,K_U10,K_U12, K_U13,K_U14, K_U15, K_K01, K_K05
		class	60	Graded Pass	1	60		
2	Topology	lecture	30	Exam	1	30	5	K_W01,K_W02,K_W03,K_W04,K_W05, K_W07,K_U01,K_U02,K_U03,K_U04,K_U05, K_U06,K_U09,K_U23, K_U24,K_K01, K_K05
		class	30	Graded Pass	1	30		
3	History of philosophy	lecture	45	Exam	1	45	3	According to the resolution of the Senate of the Catholic University of Lublin from April 12, 2012 (714/II/10)
ELECTIVE 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	Foreign language	foreign language class	30	Graded Pass	1	30	1	According to the resolution of the Senate of the Catholic University of Lublin from March 28, 2019 (803/II/8)
2	Elective course II	lecture	30	Exam	1	30	5	K_W01,K_W04,K_U38,K_K02,K_K05
		class (laboratory**)	30	Graded Pass	1	30		
3	Elective course III	lecture	30	Exam	1	30	5	K_W01,K_W04,K_U38,K_K02,K_K05
		class (laboratory**)	30	Graded Pass	1	30		

* student choose foreign language and two elective courses (60+60 h, 5+5 ECTS)

** Joint course with Informatics

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

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Programme curriculum
Programme MATHEMATICS (BA DEGREE STUDIES)
Cycle 2019/2020

Predicted number of students starting the cycle
Year II Semester IV – academic year 2020/2021

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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	Abstract algebra	lecture	60	Exam	1	60	8	K_W01,K_W02,K_W03,K_W04,K_W05, K_W07,K_U01,K_U02, K_U03,K_U04,K_U05, K_U06,K_U17,K_K01, K_K05
		class	30	Graded Pass	1	30		
2	Measure and integral	lecture	30	Exam	1	30	5	K_W01,K_W02,K_W03,K_W04,K_W05, K_W07,K_U01,K_U02, K_U03,K_U04,K_U05, K_U06,K_U07,K_U09,K_U13,K_U14,K_K01, K_K05
		class	30	Graded Pass	1	30		
3	Differential equations	lecture	30	Exam	1	30	5	K_W01,K_W02,K_W03,K_W04,K_W05, K_W07,K_U01,K_U02, K_U03,K_U04,K_U05, K_U06,K_U21,K_U22,K_K01, K_K05
		class	30	Graded Pass	1	30		
4	Computing laboratory	laboratory	30	Graded Pass	2	60	4	K_W08,K_W09,K_U15,K_U28,K_U39,K_U41,K_K02, K_K05
ELECTIVE 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	Foreign language	foreign language class	30	Graded Pass	1	30	1	<i>According to the resolution of the Senate of the Catholic University of Lublin from March 28, 2019 (803/II/8)</i>
		exam		Exam			2	
2	Elective course IV	lecture	30	Exam	1	30	5	K_W01,K_W04,K_U38,K_K02,K_K05
		class (laboratory**)	30	Graded Pass	1	30		

* student choose foreign language and one elective course (60 h, 5 ECTS) and practical placement – 3 weeks (120 h) during summer holiday (course credit in 5th semester)

** Joint course with Informatics

NUMBER OF TEACHING HOURS PER SEMESTER PER STUDENT:	330
ECTS POINTS PER SEMESTER PER STUDENT:	30

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Programme curriculum
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Predicted number of students starting the cycle
 Year III Semester V – academic year 2021/2022

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	Probability theory	lecture	60	Exam	1	60	8	K_W01,K_W02,K_W03,K_W04,K_W05, K_U01,K_U02, K_U03,K_U04,K_U05,K_U06, K_U29,K_U30,K_U31,K_U32,K_U33,K_U35, K_K01, K_K05
		class	30	Graded Pass	1	30		
2	Complex analysis	lecture	30	Exam	1	30	5	K_W01,K_W02,K_W03,K_W04,K_W05, K_U01,K_U02, K_U03,K_U04,K_U05,K_U06, K_K01, K_K05
		class	30	Graded Pass	1	30		
3	Ethics	lecture	30	Exam	1	30	2	According to the resolution of the Senate of the Catholic University of Lublin from April 12, 2012 (714/II/11)
4	Protection of intellectual property	lecture	15	Graded Pass	1	15	1	K_W10

ELECTIVE 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	Seminar	seminar	30	Pass	1	30	5	K_W01,K_W02,K_W03,K_W04,K_W05, K_W06,K_W07,K_U01,K_U02,K_U03,K_U04, K_U05,K_U11,K_U13,K_U14,K_U15,K_U16, K_U18,K_U22,K_U37,K_U38,K_U39,K_U40, K_U41,K_U42,K_K01,K_K02,K_K03,K_K04, K_K05
2	Practical placement (3 weeks)	practical placement	120	Pass			4	K_W10,K_U25,K_U28,K_U36,K_U38,K_U39, K_U40,K_U41,K_U42,K_K01,K_K02,K_K03, K_K04
3	Elective course V	lecture	30	Exam	1	30	5	K_W01,K_W04,K_U38,K_K02,K_K05
		class (laboratory**)	30	Graded Pass	1	30		

* student choose one elective course (60 h, 5 ECTS), one seminar (30 h 4 ECTS) and complete practical placement – 3 weeks (120 h 4 ECTS)

** Joint course with Informatics

NUMBER OF TEACHING HOURS PER SEMESTER PER STUDENT:	285+120
ECTS POINTS PER SEMESTER PER STUDENT:	30

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Programme curriculum
 Programme MATHEMATICS (BA DEGREE STUDIES)
 Cycle 2019/2020
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Predicted number of students starting the cycle
 Year III Semester VI – academic year 2021/2022

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	Statistics	lecture	30	Exam	1	30	5	K_W01,K_W02,K_W03,K_W04,K_W05, K_U01,K_U02, K_U03,K_U04,K_U05,K_U06, K_U34,K_U35,K_K01, K_K05
		class	30	Graded Pass	1	30		
2	Functional analysis	lecture	30	Exam	1	30	5	K_W01,K_W02,K_W03,K_W04,K_W05, K_U01,K_U02, K_U03,K_U04,K_U05,K_U06, K_U09,K_U10,K_K01, K_K05
		class	30	Graded Pass	1	30		
ELECTIVE 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	Seminar	seminar	30	Pass	1	30	5	K_W01,K_W02,K_W03,K_W04,K_W05, K_W06,K_W07,K_U01,K_U02,K_U03,K_U04, K_U05,K_U11,K_U13,K_U14,K_U15,K_U16, K_U18,K_U22,K_U37,K_U38,K_U39,K_U40, K_U41,K_U42,K_K01,K_K02,K_K03,K_K04, K_K05
2	BA project and preparation for a diploma examination	assignment		Pass			10	
3	Elective course VI	lecture	30	Exam	1	30	5	K_W01,K_W04,K_U38,K_K02,K_K05
		class (laboratory**)	30	Graded Pass	1	30		

* student choose one elective course (60 h, 5 ECTS) and one seminar (30 h, 5 ECTS), student is required to prepare BA project (10 ECTS)

** Joint course with Informatics

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

NUMBER OF TEACHING HOURS PER CYCLE PER STUDENT:	1980+120
ECTS POINTS PER CYCLE PER STUDENT:	180

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Seminarium
Algebra
Application of mathematics
Algorytms and programming**

Elective course I, IV,VI
Differential geometry
Discrete mathematics**
Foundations of numerical methods
Operations research
Financial mathematics
Descriptive statistics
Statistical analysis of data**
Abstract data structures**
Artificial intelligence**

Elective course II, III, V
Elements of number theory
Introduction to mathematical modelling
Algorithmic methods
Graph and network theory**
Mathematical background for computer graphics**
Mathematics of life insurance
Multidimensional data analysis
Databases I**
Object-oriented programming**

** Joint course with Informatics

Uniwersytecka Komisja ds. Kształcenia
 pozytywnie zaopiniowała
 dnia 18-09-2019

Senat KUL zatwierdził

dnia 2019-09-26

PROREKTOR
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