

Nominalny plan studiów pierwszego stopnia prowadzonych w języku angielskim o profilu ogólnoakademickim na kierunku Informatyka i Systemy Informacyjne prowadzonych na Wydziale Matematyki i Nauk Informacyjnych obowiązujący od roku ak 2020/21	Uwagi
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COMPUTER SCIENCE AND INFORMATION SYSTEMS - semester 1

No.	Course	ECTS	Lc	Ex	Lab	P	Exam	
1	Calculus 1	6	2	2	0	0	E	bez zmian
2	Linear algebra with geometry	5	2	2	0	0	E	bez zmian
3	Introduction to formal logic and set theory	5	2	2	0	0	E	bez zmian
4	Programming 1 - fundamentals	6	2	2	1	0		bez zmian
5	Electronic principles	4	2	1	0	0		bez zmian
6	Physics 1	4	2	1	0	0		bez zmian
Total:		30	12	10	1	0	3	
Hours (total):					23			
Hours (without Sports, HES, Languages):					23			

COMPUTER SCIENCE AND INFORMATION SYSTEMS - semester 2

No.	Course	ECTS	Lc	Ex	Lab	P	Exam	
1	Calculus 2	5	2	3	0	0	E	bez zmian
2	Discrete mathematics 1	4	2	2	0	0		bez zmian
3	Physics 2	4	2	1	1	0	E	bez zmian
4	Programming 2 - object oriented	5	2	0	2	0		bez zmian
5	Introduction to digital systems	4	2	1	0	0		bez zmian
6	UNIX fundamentals	2	0	0	2	0		bez zmian
7	Communication skills (humanities)	2	0	2	0	0		bez zmian
8	Language	4	0	4	0	0		bez zmian
9	Physical education and sports	0	0	2	0	0		bez zmian
Total:		30	10	15	5	0	2	
Hours (total):					30			
Hours (without Sports, HES, Languages):					22			

COMPUTER SCIENCE AND INFORMATION SYSTEMS - semester 3

No.	Course	ECTS	Lc	Ex	Lab	P	Exam	
1	Differential equations	4	2	2	0	0		bez zmian
2	Discrete mathematics 2	4	2	2	0	0	E	bez zmian
3	Algorithms and data structures	7	2	2	2	0	E	bez zmian
4	Programming 3 - advanced	4	2	0	2	0		bez zmian
5	Data transmission	3	2	0	1	0		bez zmian
6	Operating systems 1	2	1	0	1	0		bez zmian
7	Humanities 1	2	2					bez zmian
8	Language	4	0	4	0	0		bez zmian
9	Physical education and sports	0	0	2	0	0		bez zmian
Total:		30	13	12	6	0	3	
Hours (total):					31			
Hours (without Sports, HES, Languages):					23			

COMPUTER SCIENCE AND INFORMATION SYSTEMS - semester 4

No.	Course	ECTS	Lc	Ex	Lab	P	Exam	
1	Probability	4	2	2	0	0	E	bez zmian
2	Object oriented design	4	1	0	2	0		bez zmian
3	Programming in graphical environment	4	2	0	2	0		bez zmian
4	Databases	4	2	0	2	0	E	bez zmian
5	Numerical methods 1	4	2	1	1	0	E	bez zmian
6	Operating systems 2	4	2	0	1	0		bez zmian
7	Humanities 2	2		2				bez zmian
8	Language	4	0	4	0	0		bez zmian
9	Physical education and sports	0	0	2	0	0		bez zmian
Total:		30	13	9	8	0	3	
Hours (total):					30			
Hours (without Sports, HES, Languages):					22			

COMPUTER SCIENCE AND INFORMATION SYSTEMS - semester 5

No.	Course	ECTS	Lc	Ex	Lab	P	Exam	
1	Computer statistics	5	2	0	2	0	E	bez zmian
2	Automata theory and formal languages	5	2	2	0	0	E	bez zmian
3	Software engineering 1	4	2	0	0	1		bez zmian
4	Numerical methods 2	4	2	1	1	0		bez zmian
5	Computer networks	4	2	0	1	0		bez zmian
6	Multilayer application development (elective block 1)	4		3				bez zmian
7	Elective 1	4		3				bez zmian
Total:		30	12	3	8	1	2	
Hours (total):					24			
Hours (without Sports, HES, Languages):					24			

COMPUTER SCIENCE AND INFORMATION SYSTEMS - semester 6

No.	Course	ECTS	Lc	Ex	Lab	P	Exam	
1	Artificial intelligence fundamentals	4	2	0	0	1	E	bez zmian
2	Software engineering 2	5	0	0	3	0		bez zmian
3	Computer graphics 1	5	2	0	2	0	E	bez zmian
4	Embedded systems (elective block 2)	4		3			E	bez zmian
5	Elective 2	4		3				bez zmian
6	Elective 3	4		3				bez zmian
7	Elective 4	4		3				bez zmian
Total:		30	8	0	13	1	3	
Hours (total):					22			
Hours (without Sports, HES, Languages):					22			

COMPUTER SCIENCE AND INFORMATION SYSTEMS - semester 7

No.	Course	ECTS	Lc	Ex	Lab	P	Exam	
1	Algorithms and computability	4	2	1	1	0		zmiana ECTS 7->4
2	Elective 5	4		3				bez zmian
3	Diploma seminar	3	0	2	0	0		bez zmian
4	Group project	4	1	0	0	1		bez zmian
5	Bachelor thesis / project preparation Bachelor diploma thesis	15	0	0	0	0		zmiana nazwy, zmiana ECTS 12->15
Total:		30	4	3	3	1	0	
Hours (total):					11			
Hours (without Sports, HES, Languages):					11			

Student Internship (after sem 4 or sem. 6) - 4 weeks, 4 ECTS, not within the ECTS limits