Załącznik nr 2b) do Uchwały Senatu nr 10/CXV/2021 z dn. 24 września 2021r.

First-cycle studies

Professional title awarded to graduates Licencjat

Field of study: INFORMATION TECHNOLOGY (ENG)

Specialty: Programming

Education profile: Practical

Type of study: Full time

Students admitted in the academic year: 2021/2022

LID-A-P/2021

No.	Course title	Level	ECTS credits Total	ECTS credits Including DP	ECTS credits Including PP	ECTS credits Including DL	Number of hours Total	Number of hours Including L	S	W	Lab	P	eL
	All-University Courses												
1	English language	-	12	6	0	0	120	0	0	0	120	0	0
2	Proseminar	-	1	1	0	0	8	0	0	0	8	0	0
3	Foundamentals of Economics	-	2	1	0	0	25	15	0	10	0	0	0
4	Law	-	2	1	0	0	25	15	0	10	0	0	0
5	Contemporary Information Culture	-	1	1	0	0	10	10	0	0	0	0	0
6	Health and Safety while studying	-	0	0	0	0	4	0	4	0	0	0	0
7	Health Education in Lifestyle Diseases	-	0	0	0	0	14	0	14	0	0	0	0
8	Physical education	-	0	0	0	0	60	0	0	60	0	0	0
	Basic Courses												
9	Fundamentals of Mathematics	-	4	2	0	0	34	16	0	18	0	0	0
10	Mathematics	-	4	2	0	0	34	16	0	18	0	0	0
11	Discrete Mathematics	-	6	2	0	0	50	20	0	30	0	0	0
12	Fundamentals of Statistics	-	3	1	0	0	24	10	0	0	14	0	0
13	Introduction to Electronics and Electrical Engineering	-	4	1	0	0	30	15	0	0	15	0	0
14	Physics	-	4	1	0	0	30	15	0	0	15	0	0
	Major-Related and Specialty Courses												
15	Algorithms and Data Structures	4	4	3	3	0	56	28	0	0	28	0	0
16	Introduction to IT	3	2	2	1	0	28	14	0	0	14	0	0
17	Introduction to Programming	3	5	3	4	0	54	20	0	0	20	14	0
18	Programming	4	9	6	7	0	115	40	0	0	40	35	0
19	Software Engineering	5	5	3	4	0	60	22	0	0	24	14	0
20	Computer System Architecture	4	5	3	3	0	60	30	0	0	30	0	0
21	Operating Systems	3	6	3	3	0	50	24	0	0	16	10	0
22	Network Technologies (CCNA)	3	5	3	3	0	54	20	0	0	20	14	0
23	Social and Occupational Problems of IT	-	1	1	0	0	10	0	10	0	0	0	0
24	Computer Graphics with HCI Elements	3	2	2	2	0	30	0	15	0	15	0	0
25	Databases	4	3	2	2	0	40	20	0	0	20	0	0
26	Artificial Intelligence	4	4	2	0	0	30	10	0	0	20	0	0
27	Team Project	3	4	1	4	0	35	0	0	0	0	35	0
28	Elective Course 1		6	3	5	0	52	14	0	0	14	24	0
29	Elective Course 2		6	3	5	0	52	14	0	0	14	24	0
30	Programming languages	4	7	3	7	0	56	0	0	0	32	24	0
31	Requirements engineering	5	7	3	7	0	56	0	0	0	32	24	0
32	CASE Tools Methodology	4	7	3	7	0	56	0	0	0	32	24	0
33	Techniques of Software Creations	4	7	3	7	0	56	0	0	0	32	24	0
34	Diploma Seminar	-	10	2	10	0	30	0	0	30	0	0	0
35	Vocational Apprenticeship	-	32	32	32	0	960	0	0	960	0	0	0
	Total: Main block of courses		180	105	116	0	2408	388	43	176	575	266	0
							Number of hours per semester						

No.	Course title	I Year sem 1 L	S	W	Lab	P	eL	ECTS	sem 2 L	S	W	Lab	P	eL	ECTS
	All-University Courses														
1	English language				60			6				60			6
2	Proseminar														
3	Foundamentals of Economics														
4	Law														
5	Contemporary Information Culture	10						1							
6	Health and Safety while studying		4					0							
7	Health Education in Lifestyle Diseases									14					0
8	Physical education										30				0
	Basic Courses														
9	Fundamentals of Mathematics	16		18				4							
10	Mathematics								16		18				4
11	Discrete Mathematics	20		30				6							
12	Fundamentals of Statistics								10			14			3
13	Introduction to Electronics and Electrical Engineering														
14	Physics								15			15			4
	Major-Related and Specialty Courses														
15	Algorithms and Data Structures								28			28			4
16	Introduction to IT	14			14			2							
17	Introduction to Programming	20			20	14		5							
18	Programming								20			20	15		4
19	Software Engineering														
20	Computer System Architecture														
21	Operating Systems														
22	Network Technologies (CCNA)	20			20	14		5							
23	Social and Occupational Problems of IT														
24	Computer Graphics with HCI Elements														
25	Databases														
26	Artificial Intelligence														
27	Team Project														
28	Elective Course 1														
29	Elective Course 2														
30	Programming languages														
31	Requirements engineering														
32	CASE Tools Methodology														
33	Techniques of Software Creations														
34	Diploma Seminar														
35	Vocational Apprenticeship										120				4
	Total: Main block of courses	100	4	48	114	28	0	29	89	14	48	137	15	0	29
		sem 1: 294							sem 2: 303						

No.	Course title	II Year sem 3 L	S	W	Lab	P	eL	ECTS	sem 4 L	S	W	Lab	P	eL	ECTS
	All-University Courses														
1	English language														
2	Proseminar											8			1
3	Foundamentals of Economics	15		10				2							
4	Law	15		10				2							
5	Contemporary Information Culture														
6	Health and Safety while studying														
7	Health Education in Lifestyle Diseases														
8	Physical education			30				0							
	Basic Courses														
9	Fundamentals of Mathematics														
10	Mathematics														
11	Discrete Mathematics														
12	Fundamentals of Statistics														
13	Introduction to Electronics and Electrical Engineering	15			15			4							
14	Physics														
	Major-Related and Specialty Courses														
15	Algorithms and Data Structures														
16	Introduction to IT														
17	Introduction to Programming														
18	Programming	20			20	20		5							
19	Software Engineering								22			24	14		5
20	Computer System Architecture								30			30			5
21	Operating Systems	24			16	10		6							
22	Network Technologies (CCNA)														
23	Social and Occupational Problems of IT		10					1							
24	Computer Graphics with HCI Elements														
25	Databases								20			20			3
26	Artificial Intelligence														
27	Team Project														
28	Elective Course 1	14			14	24		6							
29	Elective Course 2														
30	Programming languages											32	24		7
31	Requirements engineering														
32	CASE Tools Methodology														
33	Techniques of Software Creations														
34	Diploma Seminar														
35	Vocational Apprenticeship										360				12
	Total: Main block of courses	103	10	50	65	54	0	26	72	0	0	114	38	0	33
		sem 3: 282							sem 4: 224						

No.	Course title	III Year sem 5 L	S	W	Lab	P	eL	ECTS	sem 6 L	S	W	Lab	P	eL	ECTS
	All-University Courses														
1	English language														
2	Proseminar														
3	Foundamentals of Economics														
4	Law														
5	Contemporary Information Culture														
6	Health and Safety while studying														
7	Health Education in Lifestyle Diseases														
8	Physical education														
	Basic Courses														
9	Fundamentals of Mathematics														
10	Mathematics														
11	Discrete Mathematics														
12	Fundamentals of Statistics														
13	Introduction to Electronics and Electrical Engineering														
14	Physics														
	Major-Related and Specialty Courses														
15	Algorithms and Data Structures														
16	Introduction to IT														
17	Introduction to Programming														
18	Programming														
19	Software Engineering														
20	Computer System Architecture														
21	Operating Systems														
22	Network Technologies (CCNA)														
23	Social and Occupational Problems of IT														
24	Computer Graphics with HCI Elements		15		15			2							
25	Databases														
26	Artificial Intelligence	10			20			4							
27	Team Project												35		4
28	Elective Course 1														
29	Elective Course 2	14			14	24		6							
30	Programming languages														
31	Requirements engineering				32	24		7							
32	CASE Tools Methodology				32	24		7							
33	Techniques of Software Creations											32	24		7
34	Diploma Seminar			15				5			15				5
35	Vocational Apprenticeship										480				16
	Total: Main block of courses	24	15	15	113	72	0	31	0	0	15	32	59	0	32
		sem 5: 239							sem 6: 106						

electives: 30.0%

DP Classes involving direct participation of academic teachers or other people conducting the class
PP Classes developing practical skills
DL Distance Learning

CISCO Authorised Training
Exam
Classes developing practical skills
project completed with a separate degree
eL Distance Learning
Online Classes

No.	Course title	Level	ECTS credits Total	DP	PP	DL	Number of hours Total	L	S	W	Lab	P	eL	I Year sem 1 L	S	W	Lab	P	eL	ECTS	sem 2 L	S	W	Lab	P	eL	ECTS
	Additional compulsory classes for international students																										
	Polish Language		8	2	0	0	60	0	0	0	60	0	0				30			4				30			4

No.	Course title	Level	ECTS credits Total	DP	PP	DL	Number of hours Total	L	S	W	Lab	P	eL	I Year sem 1 L	S	W	Lab	P	eL	ECTS	sem 2 L	S	W	Lab	P	eL	ECTS
	Voluntary extracurricular courses for students ("I want more" package)																										
1	IT Essentials (Cisco)		1	1	1	0	10	0	0	10	0	0	0										10				1
2	Virtualization		1	1	1	0	10	0	0	10	0	0	0														

No.	Course title	II Year sem 3 L	S	W	Lab	P	eL	ECTS	sem 4 L	S	W	Lab	P	eL	ECTS
	Additional compulsory classes for international students														
	Polish Language														
	Voluntary extracurricular courses for students ("I want more" package)														
1	IT Essentials (Cisco)														
2	Virtualization			10				1							

No.	Course title	III Year sem 5 L	S	W	Lab	P	eL	ECTS	sem 6 L	S	W	Lab	P	eL	ECTS
	Additional compulsory classes for international students														
	Polish Language														
	Voluntary extracurricular courses for students ("I want more" package)														
1	IT Essentials (Cisco)														
2	Virtualization														

No.	Electives 1 (1 of 2)	Level	offered in semester
1	Introduction to Web Technologies	3	3
2	Operational Research	3	3

No.	Electives 2 (1 of 2)	Level	offered in semester
1	Elements of Automation and Robotics	3	5
2	Cybersecurity Essentials	3	5

First-cycle studies

Professional title awarded to graduates Licencjat

Field of study: INFORMATION TECHNOLOGY (ENG)

Specialty: Game Design and Development

Education profile: Practical

Type of study: Full time

Students admitted in the academic year: 2021/2022

LID-A-GDD/2021

No.	Course title	Level	ECTS credits Total	Including DP	Including PP	Including DL	Number of hours Total	L	S	W	Lab	P	eL
	All-University Courses												
1	English language	-	12	6	0	0	120	0	0	0	120	0	0
2	Proseminar	-	1	1	0	0	8	0	0	0	8	0	0
3	Foundamentals of Economics	-	2	1	0	0	25	15	0	10	0	0	0
4	Law	-	2	1	0	0	25	15	0	10	0	0	0
5	Contemporary Information Culture	-	1	1	0	0	10	10	0	0	0	0	0
6	Health and Safety while studying	-	0	0	0	0	4	0	4	0	0	0	0
7	Health Education in Lifestyle Diseases	-	0	0	0	0	14	0	14	0	0	0	0
8	Physical education	-	0	0	0	0	60	0	0	60	0	0	0
	Basic Courses												
9	Fundamentals of Mathematics	-	4	2	0	0	34	16	0	18	0	0	0
10	Mathematics	-	4	2	0	0	34	16	0	18	0	0	0
11	Discrete Mathematics	-	6	2	0	0	50	20	0	30	0	0	0
12	Fundamentals of Statistics	-	3	1	0	0	24	10	0	0	14	0	0
13	Introduction to Electronics and Electrical Engineering	-	4	1	0	0	30	15	0	0	15	0	0
14	Physics	-	4	1	0	0	30	15	0	0	15	0	0
	Major-Related and Specialty Courses												
15	Algorithms and Data Structures	4	4	3	3	0	56	28	0	0	28	0	0
16	Introduction to IT	3	2	2	1	0	28	14	0	0	14	0	0
17	Introduction to Programming	3	5	3	4	0	54	20	0	0	20	14	0
18	Programming	4	9	6	7	0	115	40	0	0	40	35	0
19	Software Engineering	5	5	3	4	0	60	22	0	0	24	14	0
20	Computer System Architecture	4	5	3	3	0	60	30	0	0	30	0	0
21	Operating Systems	3	6	3	3	0	50	24	0	0	16	10	0
22	Network Technologies (CCNA)	3	5	3	3	0	54	20	0	0	20	14	0
23	Social and Occupational Problems of IT	-	1	1	0	0	10	0	10	0	0	0	0
24	Computer Graphics with HCI Elements	3	2	2	2	0	30	0	15	0	15	0	0
25	Databases	4	3	2	2	0	40	20	0	0	20	0	0
26	Artificial Intelligence	4	4	2	0	0	30	10	0	0	20	0	0
27	Team Project	3	4	1	4	0	35	0	0	0	0	35	0
28	Elective Course 1		6	3	5	0	52	14	0	0	14	24	0
29	Elective Course 2		6	3	5	0	52	14	0	0	14	24	0
30	Preproduction	4	6	3	6	0	52	0	0	0	32	20	0
31	Game Engines and Programming Technologies	4	6	3	6	0	52	0	0	0	32	20	0
32	Physics in Games	4	6	3	6	0	52	0	0	0	32	20	0
33	Marketing and Business Aspects of Games	4	4	2	4	0	36	0	0	0	22	14	0
34	Creating Graphic Asets	4	3	2	3	0	28	0	0	0	28	0	0
35	Levels Design	4	3	2	3	0	28	0	0	0	28	0	0
36	Animation and Motion Capture Techniques	4	3	2	3	0	28	0	0	0	28	0	0
37	Artificial Intelligence in Games	4	2	1	2	0	20	0	0	0	20	0	0
38	Diploma Seminar	-	10	2	10	0	30	0	0	30	0	0	0
39	Vocational Apprenticeship	-	32	32	32	0	960	0	0	960	0	0	0
	Total: Main block of courses		185	111	121	0	2480	388	43	176	669	244	0

No.	I Year sem 1 L	S	W	Lab	P	eL	ECTS	sem 2 L	S	W	Lab	P	eL	ECTS	II Year sem 3 L	S	W	Lab	P	eL	ECTS
1				60			6				60			6							
2																					
3															15		10				2
4															15		10				2
5	10						1														
6		4					0														
7									14					0							
8										30				0			30				0
9	16		18				4														
10								16		18				4							
11	20		30				6														
12								10			14			3							
13															15			15			4
14								15			15			4							
15								28			28			4							
16	14			14			2														
17	20			20	14		5														
18								20			20	15		4	20			20	20		5
19																					
20																					
21															24			16	10		6
22	20			20	14		5														
23																10					1
24																					
25																					
26																					
27																					
28															14			14	24		6
29																					
30																					
31																					
32																					
33																					
34																		28			3
35																					
36																					
37																					
38																					
39										120				4							
Total	100	4	48	114	28	0	29	89	14	48	137	15	0	29	103	10	50	93	54	0	29
Number of hours per semester	294							303							310						

No.	II Year sem 4 L	S	W	Lab	P	eL	ECTS	III Year sem 5 L	S	W	Lab	P	eL	ECTS	sem 6 L	S	W	Lab	P	eL	ECTS
1																					
2				8			1														
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					
13																					
14																					
15																					
16																					
17																					
18																					
19	22			24	14		5														
20	30			30			5														
21																					
22																					
23																					
24									15		15			2							
25	20			20			3														
26								10			20			4							
27																			35		4
28																					
29								14			14	24		6							
30				32	20		6														
31											32	20		6							
32											32	20		6							
33																		22	14		4
34																					
35																		28			3
36				28			3														
37																		20			2
38										15				5			15				5
39			360				12										480				16
Total	72	0	0	142	34	0	35	24	15	15	113	64	0	29	0	0	15	70	49	0	34
Number of hours per semester	248							231							134						

electives: 31.9%

CISCO Authorised Training

Exam

Classes developing practical skills

project completed with a separate degree

eL Distance Learning

Online Classes

DP Classes involving direct participation of academic teachers or other people conducting the class
PP Classes developing practical skills
DL Distance Learning

No.	Additional compulsory classes for international students	ECTS Total	DP	PP	DL	Hours Total	L	S	W	Lab	P	eL	sem 1 Lab	sem 1 ECTS	sem 2 Lab	sem 2 ECTS
	Polish Language	8	2	0	0	60	0	0	0	60	0	0	30	4	30	4

No.	Voluntary extracurricular courses for students (“I want more” package)	ECTS Total	DP	PP	DL	Hours Total	L	S	W	Lab	P	eL	sem 2 W	sem 2 ECTS	sem 3 W	sem 3 ECTS
1	IT Essentials (Cisco)	1	1	1	0	10	0	0	10	0	0	0	10	1		
2	Virtualization	1	1	1	0	10	0	0	10	0	0	0			10	1

No.	Electives 1 (1 of 2)	Level	offered in semester
1	Introduction to Web Technologies	3	3
2	Operational Research	3	3

No.	Electives 2 (1 of 2)	Level	offered in semester
1	Elements of Automation and Robotics	3	5
2	Cybersecurity Essentials	3	5