Faculty of Applied Information Technology

field of study: INFORMATION TECHNOLOGY (ENG)

specialty: Cybersecurity

level: first-cycle studies

professional title awarded to graduates: licencjat

education profile: practical

type of study: full-time

UNIVERSITY of INFORMATION TECHNOLOGY and MANAGEMENT in Rzeszow, POLAND

IN.LSA.CBS.2026_Z

Students admitted in the academic year: 2026/2027

No.	Course title	Form of credit	Level	ECTS	ECTS PP	Number of hours: Total	Including: 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
	All-University Courses																									
1	English for Specific Purposes	GC, Ex	-	8	0	120	0	0	0	120	0	0				60			4				60			4
2	Digital Safety and Awarness	C	-	1	0	10	10	0	0	0	0	0	10						1							
3	Fundamentals of Economics	C	-	1	0	20	0	20	0	0	0	0														
4	Personal Business Model	C	-	1	0	20	0	0	10	0	10	0														
5	Protection of Intellectual Property	C		1	0	8	8	0	0	0	0	0								8						1
6	Academic Writing Skills	C	-	1	0	8	0	0	0	8	0	0														
7	Health and Safety while Studying	C	-	0	0	4	4	0	0	0	0	0	4						0							
8	Civilization Challenges	C	-	1	0	20	20	0	0	0	0	0														
9	Physical Education	C	-	0	0	60	0	0	60	0	0	0							0			30				0
	Basic Courses																									
10	Fundamentals of Mathematics with Elements of Linear Algebra	Ex	-	5	0	44	20	0	24	0	0	0	20		24				5							
11	Discrete Mathematics	Ex	-	6	0	52	22	0	30	0	0	0								22		30				6
12	Mathematical Analysis	Ex	-	4	0	32	16	0	16	0	0	0								16		16				4
13	Fundamentals of Statistics	GC	-	2	0	16	0	0	0	16	0	0														
14	Introduction to Electronics and Electrical Engineering	GC	3	3	0	38	0	0	0	18	0	20														
15	Physics	Ex	-	4	0	30	16	0	0	14	0	0								16			14			4
16	Law	Ex	-	1	0	20	0	20	0	0	0	0									20					1
	Major-Related and Specialty Courses																									
17	Algorithms and Data Structures	Ex	4	5	3	50	26	0	0	24	0	0								26			24			5
18	Introduction to IT	Ex	3	3	2	28	14	0	0	14	0	0	14			14			3							
19	Introduction to Programming	Ex	3	4	3	46	20	0	0	26	0	0	20			26			4							
20	Programming	Ex	4	4	3	42	0	22	0	20	0	0									22		20			4
21	Object-Oriented Programming	Ex	4	4	3	40	0	20	0	20	0	0														
22	Software Engineering	Ex	5	4	2	46	22	0	0	24	0	0														
23	Computer System Architecture	Ex	4	5	3	54	26	0	0	28	0	0														
24	Operating Systems	Ex	3	4	2	40	24	0	0	16	0	0														
25	Network Technologies (CCNA)	Ex	3	7	4	62	22	0	0	20	20	0	22			20	20		7							
26	Social and Occupational Problems of IT	Ex	-	2	0	27	0	12	0	0	0	15		12				15	2							
27	Computer Graphics	Ex	-	2	1	30	0	16	0	14	0	0									16		14			2
28	Databases	Ex	3	4	2	40	20	0	0	20	0	0														
29	Introduction to Artificial Intelligence	Ex	4	3	2	32	12	0	0	20	0	0														
30	Programming Project	GC	4	5	5	50	0	0	0	0	50	0														
31	Human-Computer Communication	GC	4	3	0	30	0	0	0	0	20	10														
32	Cybersecurity Essentials	GC	3	4	4	40	0	0	0	20	20	0														
33	Fundamentals of Security Operations (SOC)	GC	3	3	3	34	0	0	0	14	20	0														
34	Security Design and Testing	GC	3	4	4	40	0	0	0	20	20	0														
35	Network Technologies 2	GC	4	4	4	40	0	0	0	20	20	0														
36	Network Security	Ex	5	6	6	68	12	0	0	16	40	0														
37	Cloud Computing	GC	4	5	5	50	0	0	0	30	20	0														
38	Ethical Hacking	GC	5	5	5	45	0	0	0	30	15	0														
39	Cloud Security	Ex	6	2	2	28	12	0	0	16	0	0														
40	Team Project	GC	3	4	4	40	0	0	0	0	40	0														
41	Diploma Seminar	GC	-	10	8	60	0	0	60	0	0	0														
42	Vocational Apprenticeship part 1 (3 months)	GC	-	18	18	480	0	0	480	0	0	0														
43	Vocational Apprenticeship part 2 (3 months)	GC	-	18	18	480	0	0	480	0	0	0														
		Total		181	116	2524	326	110	200	588	295	45	90	12	24	120	20	15	26	88	58	76	132	0	0	31
							Number of hours per semester excluding Vocational Apprenticeship						281							354						

No.	Course title	Form of credit	Level	ECTS	ECTS PP	II Year: sem 3: L	S	W	Lab	P	eL	ECTS	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
	All-University Courses																																
1	English for Specific Purposes	GC, Ex	-	8	0																												
2	Digital Safety and Awarness	C	-	1	0																												
3	Fundamentals of Economics	C	-	1	0	20						1																					
4	Personal Business Model	C	-	1	0		10			10		1																					
5	Protection of Intellectual Property	C		1	0																												
6	Academic Writing Skills	C	-	1	0											8			1														
7	Health and Safety while Studying	C	-	0	0																												
8	Civilization Challenges	C	-	1	0															20						1							
9	Physical Education	C	-	0	0		30					0																					
	Basic Courses																																
10	Fundamentals of Mathematics with Elements of Linear Algebra	Ex	-	5	0																												
11	Discrete Mathematics	Ex	-	6	0																												
12	Mathematical Analysis	Ex	-	4	0																												
13	Fundamentals of Statistics	GC	-	2	0				16			2																					
14	Introduction to Electronics and Electrical Engineering	GC	3	3	0				18		20	3																					
15	Physics	Ex	-	4	0																												
16	Law	Ex	-	1	0																												
	Major-Related and Specialty Courses																																
17	Algorithms and Data Structures	Ex	4	5	3																												
18	Introduction to IT	Ex	3	3	2																												
19	Introduction to Programming	Ex	3	4	3																												
20	Programming	Ex	4	4	3																												
21	Object-Oriented Programming	Ex	4	4	3		20		20			4																					
22	Software Engineering	Ex	5	4	2																											22		4
23	Computer System Architecture	Ex	4	5	3								26			28			5														
24	Operating Systems	Ex	3	4	2	24			16			4																					
25	Network Technologies (CCNA)	Ex	3	7	4																												
26	Social and Occupational Problems of IT	Ex	-	2	0																												
27	Computer Graphics	Ex	-	2	1																												
28	Databases	Ex	3	4	2	20			20			4																					
29	Introduction to Artificial Intelligence	Ex	4	3	2								12			20			3														
30	Programming Project	GC	4	5	5					50		5																					
31	Human-Computer Communication	GC	4	3	0																										20	10	3
32	Cybersecurity Essentials	GC	3	4	4				20	20		4																					
33	Fundamentals of Security Operations (SOC)	GC	3	3	3				14	20		3																					
34	Security Design and Testing	GC	3	4	4											20	20		4														
35	Network Technologies 2	GC	4	4	4											20	20		4														
36	Network Security	Ex	5	6	6															12			16	40		6							
37	Cloud Computing	GC	4	5	5																		30	20		5							
38	Ethical Hacking	GC	5	5	5																		30	15		5							
39	Cloud Security	Ex	6	2	2																						12			16			2
40	Team Project	GC	3	4	4																			40		4							
41	Diploma Seminar	GC	-	10	8																	30				5			30				5
42	Vocational Apprenticeship part 1 (3 months)	GC	-	18	18										480				18														
43	Vocational Apprenticeship part 2 (3 months)	GC	-	18	18																								480				18
		Total		181	116	44	40	40	124	100	20	31	58	0	0	96	40	0	36	12	0	30	76	115	0	25	34	0	30	40	20	10	32
						368							194							233							134						

ECTS obtained through elective courses	61	34%
ECTS obtained through courses in the humanities or social sciences	5	
classes involving direct participation of academic staff or other instructors		
number of classes	2421	
ECTS	97	54%
ECTS credits awarded for practical skills-oriented courses	116	64%

LEGEND:

- C Credit
- GC Graded Credit
- Ex Exam
- L Lecture
- S Seminar
- W Workshops
- Lab Laboratory / Foreign Language Workshops
- P Project
- eL e-learning (Distance Learning)

MARKINGS:

- CISCO, AWS Authorised Training
- Exam
- Project conducted according to the Project-Based Learning model
- Classes developing practical skills