Faculty of Applied Information Technology

field of study: INFORMATION TECHNOLOGY (ENG)
specialty: Game Design and Development
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

LID-A-GDD/2025

Students admitted in the academic year: 2025/2026

No.	Course title	Form of credit	ECTS Credits Total	Number of hours Total	Including L	S	W	Lab	P	eL
	All-University Courses									
1	English for Specific Purposes	GC, Ex	8	120	0	0	0	120	0	0
2	Digital Safety and Awarness	C	1	10	10	0	0	0	0	0
3	Foundamentals of Economics	C	1	20	0	20	0	0	0	0
4	Law	C	1	20	0	20	0	0	0	0
5	Personal Business Model	C	1	20	0	0	10	0	10	0
6	Protection of Intellectual Property	C	1	8	8	0	0	0	0	0
7	Academic Writing Skills	C	1	8	0	0	0	8	0	0
8	Health and Safety while Studying	C	0	4	0	4	0	0	0	0
9	Civilization Challenges	C	1	20	20	0	0	0	0	0
10	Physical Education	C	0	60	0	0	60	0	0	0
	Basic Courses									
11	Fundamentals of Mathematics	Ex	4	34	16	0	18	0	0	0
12	Mathematics	Ex	4	34	16	0	18	0	0	0
13	Discrete Mathematics	Ex	6	50	20	0	30	0	0	0
14	Fundamentals of Statistics	GC	2	16	0	0	0	16	0	0
15	Introduction to Electronics and Electrical Engineering	GC	3	38	0	0	0	18	0	20
16	Physics	Ex	4	30	15	0	0	15	0	0
	Major-Related and Specialty Courses									
17	Algorithms and Data Structures	Ex	5	56	28	0	0	28	0	0
18	Introduction to IT	Ex	3	28	14	0	0	14	0	0
19	Introduction to Programming	Ex	4	46	20	0	0	26	0	0
20	Programming	Ex	4	40	20	0	0	20	0	0
21	Object-Oriented Programming	Ex	4	40	20	0	0	20	0	0
22	Software Engineering	Ex	4	46	22	0	0	24	0	0
23	Computer System Architecture	Ex	5	60	30	0	0	30	0	0
24	Operating Systems	Ex	3	40	24	0	0	16	0	0
25	Network Technologies (CCNA)	Ex	5	60	20	0	0	20	20	0
26	Social and Occupational Problems of IT	Ex	2	25	0	10	0	0	0	15
27	Computer Graphics	Ex	2	30	0	15	0	15	0	0
28	Databases	Ex	3	40	20	0	0	20	0	0
29	Introduction to Artificial Intelligence	Ex	4	30	10	0	0	20	0	0
30	Software Project	GC	5	50	0	0	0	0	50	0
31	Human-Computer Communication	GC	3	30	0	0	0	0	20	10
32	Team Project	GC	8	65	0	0	0	0	65	0
33	Elective Course 1	GC	6	48	0	0	0	20	28	0
34	Elective Course 2	GC	6	48	0	0	0	20	28	0
35	Preproduction	GC	5	52	0	0	0	32	20	0
36	Game Engines and Programming Technologies	GC	5	56	0	0	0	32	24	0
37	Physics in Games	GC	4	32	0	0	0	32	0	0
38	Marketing and Business Aspects of Games	GC	2	22	0	0	0	22	0	0
39	Creating Graphic Asets	GC	3	28	0	0	0	28	0	0
40	Levels Design	GC	3	24	0	0	0	24	0	0
41	Animation and Motion Capture Techniques	GC	3	28	0	0	0	28	0	0
42	Artificial Intelligence in Games	GC	2	20	0	0	0	20	0	0
43	Diploma Seminar	GC	10	30	0	0	30	0	0	0
44	Vocational Apprenticeship part 1 (3 months)	GC	16	480	0	0	480	0	0	0
45	Vocational Apprenticeship part 2 (3 months)	GC	16	480	0	0	480	0	0	0
	Total		183	2526	333	69	166	688	265	45
					Number of hours per semester excluding Vocational Apprenticeship					

No.	I Year sem 1 L	S	W	Lab	P	eL	ECTS	sem 2 L	S	W	Lab	P	eL	ECTS
1				60			4				60			4
2	10						1							
3														
4									20					1
5														
6								8						1
7														
8		4					0							
9														
10										30				0
11	16		18				4							
12								16		18				4
13	20		30				6							
14														
15														
16								15			15			4
17								28			28			5
18	14			14			3							
19	20			26			4							
20								20			20			4
21														
22														
23														
24														
25	20			20	20		5							
26									10				15	2
27									15		15			2
28														
29														
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42														
43														
44														
45														
Total	100	4	48	120	20	0	27	87	45	48	138	0	15	27
	292							333						

No.	II Year sem 3 L	S	W	Lab	P	eL	ECTS	sem 4 L	S	W	Lab	P	eL	ECTS
1														
2														
3		20					1							
4														
5			10		10		1							
6														
7											8			1
8														
9								20						1
10			30				0							
11														
12														
13														
14				16			2							
15				18		20	3							
16														
17														
18														
19														
20														
21	20			20			4							
22														
23								30			30			5
24	24			16			3							
25														
26														
27														
28	20			20			3							
29								10			20			4
30					50		5							
31														
32														
33				20	28		6							
34														
35														
36											32	24		5
37														
38														
39				28			3							
40														
41											28			3
42														
43														
44										480				16
45														
Total	64	20	40	138	88	20	31	60	0	0	118	24	0	35
	370							202						

No.	III Year sem 5 L	S	W	Lab	P	eL	ECTS	sem 6 L	S	W	Lab	P	eL	ECTS
1														
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17														
18														
19														
20														
21														
22								22			24			4
23														
24														
25														
26														
27														
28														
29														
30														
31												20	10	3
32					65		8							
33														
34				20	28		6							
35				32	20		5							
36														
37				32			4							
38											22			2
39														
40											24			3
41														
42											20			2
43			15				5			15				5
44														
45										480				16
Total	0	0	15	84	113	0	28	22	0	15	90	20	10	35
	212							157						

% ECTS electives	31.1%
ECTS credits to obtain within humanities or social sciences	5

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

MARKINGS:

- CISCO, AWS Authorised Training
- Exam
- Project completed with a separate degree
- Online Classes
- Classes developing practical skills

Elective Courses:

No.	Electives 1 (1 of 2)	offered in semester
1	Operational Research	3
2	Cybersecurity Essentials	3

No.	Electives 2 (1 of 2)	offered in semester
1	Introduction to Data Science	5
2	Cloud Technologies	5