UNIVERSITY OF ECOLOGY AND MANAGEMENT IN WARSAW

First-cycle study plan for students starting their studies from 2023/2024

Field of study: Computer Engineering

PROGRAMME MODULES WITHIN BASIC SCIENCES - sem. I-III

Engineer's studies
full-time; practical profile
7 semesters

CODE	Course names	Hours					ECTS		Number of hours per semester																																		
		Σ	Form of classes				Total	practical	1st semester					2nd semester					3rd semester					4th semeste					5th semeste					6th semeste					7th semeste				
			L	aud.ex	proj.	lab.			L	E	aud.ex	proj.	lab.	L	E	AND	P	L	L	E	aud.ex	proj.	lab.	L	E	aud.ex	proj	lab	L	E	aud.ex	proj	lab	L	E	aud.ex	proj	lab	L	E	aud.ex	proj	lab
I 001	English Course I	60		60			2	2			60																																
I 002	Logic and Set Theory	60	30	30			6		30	E	30																																
I 003	Mathematics I	60	30	30			6		30	E	30																																
I 004	Microeconomics	30	30				2		30	E																																	
I 005	Basics of Computer Programming	75	30	15		30	7	3	30	E	15		30																														
I 006	Principles of Management	30	30				2		30	E																																	
I 007	Introduction to Computer Science	45	30	15			5	2	30	E	15																																
I 001	English Course II	60		60			2	2								60																											
I 008	Logistics	30	30				2							30	E																												
I 003	Mathematics II	60	30	30			6							30	E	30																											
I 009	Principles of Marketing	30	30				2							30	E																												
I 010	Ethics	15	15				1							15																													
I 011	Principles of Digital Technology	60	30			30	6	3						30	E			30																									
I 012	Principles of Telecommunications	45	30	15			4	2						30		15																											
I 013	Object-Oriented Programming	60	30			30	7	3						30	E			30																									
I 014	Algorithms and Data Structure	45	30			15	5	2											30	E			15																				
I 015	Computer Architecture	45	30			15	5	2											30				15																				
I 016	Physics I	30	15	15			3	1											15	E	15																						
I 001	English Course III	60		60			2	2													60																						
I 017	Event-Driven Programming	45	30			15	5	2											30	E			15																				
I 018	Social Aspects of the Internet	30	30				2												30																								
I 019	Statistics	45	15	30			4	1											15	E	30																						
I 020	Signal and Information Theory	45	30	15			4	2											30		15																						
	Number of hours per semester I-III	1065	555	375		135			180		150		30	195		105		60	180		120		45																				
			1065						360					360					345																								
	Number of exams per semester, I-III								6					5					4																								
	Number of ECTS per semester I-III						90	29	30					30					30																								

UNIVERSITY OF ECOLOGY AND MANAGEMENT IN WARSAW

First-cycle study plan for students starting their studies from 2023/2024

Field of study: Computer Engineering

PROGRAMME MODULES WITHIN BASIC SCIENCES - sem. IV-VII

Engineer's studies
full-time; practical profile
7 semesters

CODE	Course names	Hours					ECTS		Number of hours per semester																													
		Σ	Form of classes				Total	practical	1st semester					2nd semester					3rd semester					4th semester					5th semester					6th semester					7th semester				
			L	aud.ex	proj.	lab.			L	E	aud.ex	proj.	lab.	L	E	AN	P	L	L	E	aud.ex	proj.	lab.	L	E	aud.ex	proj.	lab.	L	E	aud.ex	proj.	lab.	L	E	aud.ex	proj.	lab.	L	E	aud.ex	proj.	lab.
I 021	Databases I	45	30			15	4	2																30	E			15															
I 016	Physics II	15				15	2	2																				15															
I 001	English Course IV	60		60			2	2																	E	60																
I 022	Principles of Web Development	45	30			15	4	2																30				15															
I 023	Economic Law	30	30				2																	30	E																	
I 024	Computer Networks I	45	30			15	4	2																30	E			15															
I 025	Operating Systems	45	30			15	4	2																30	E			15															
I 026	IT Project Management	45	30	15			3	1																30		15																
I 027	Automation and Robotization	30	15			15	2	1																					15	E			15									
I 021	Databases II	30	15			15	2	1																					15	E			15									
I 028	System and Network Security	45	30			15	3	1																					30				15									
I 029	Electrical Engineering and Electronics	45	15	15		15	3	2																					15	E	15		15									
I 030	Computer Graphics	45	30			15	3	1																					30				15									
I 031	Software Engineering	45	30			15	3	1																					30	E			15									
I 024	Computer Networks II	30	15			15	3	2																					15	E			15									
I 032	Basics of Artificial Intelligence	45	30	15			2	1																					30		15											
I 033	Diploma Thesis Writing and Consultation I						2	2																											approx. 2							
I 034	Internship						16	16																											3 months							
I 035	Physical Education	30				30																																				
I 033	Diploma Thesis Writing and Consultation II						13	13																																	approx. 7	
I 034	Internship						16	16																																	3 months	
I 035	Physical Education	30				30																																				30
	Number of hours per semester IV-VII	705	360	105		240																		180	75			75	180	30			105					30				30
				705																					330					315					30					30		
	Number of exams per semester, IV-VII																								5					5												
	Number of ECTS per semester IV-VII						93	70																	25					21					18					29		

UNIVERSITY OF ECOLOGY AND MANAGEMENT IN WARSAW

First-cycle study plan for students starting their studies from 2023/2024

Field of study: Computer Engineering

ELECTIVE MAJOR MODULE

Major: Cybersecurity

Engineer's studies
full-time; practical profile
7 semesters

CODE	Course names	Hours					ECTS		Number of hours per semester																															
		Σ	Form of classes				Total	practical	1st semester					2nd semester					3rd semester					4th semester					5th semester					6th semester					7th semester				
			L	aud.ex	proj.	lab.			L	E	aud.ex	proj.	lab.	L	E	AND	P	L	L	E	aud.ex	proj.	lab.	L	E	aud.ex	proj.	lab.	L	E	aud.ex	proj.	lab.	L	E	aud.ex	proj.	lab.	L	E	aud.ex	proj.	lab.
I 301	Information Protection in Computer Networks I	45	30			15	5	2																30				15														
I 302	Internet of Things and Mobile Device Security I	45	30			15	5	2																					30				15								
I 301	Information Protection in Computer Networks II	45	30		15		4	2																					30			15									
I 302	Internet of Things and Mobile Device Security II	45	30		15		4	2																										30			15					
I 303	Digital Forensics	45	30			15	4	2																										30				15				
I 304	Diploma Thesis Seminar I	15			15		1																													15						
I 305	Security Management	45	30		15		3	1																										30			15					
I 304	Diploma Thesis Seminar II	15			15		1	1																																	15		
	Number of exams in group C																																										
	Number of hours in group C	300	180		75	45																		30				15	60			15	15	90			45	15				15	
			300																					45					90					150					15				
	Number of ECTS in group C						27	12																5					9					12					1				
	Total number of exams	15							6					5					4																								
	Number of hours	2070	1095	480	75	420			180		150		30	195		105		60	180		120		45	210		75		90	240		30	15	120	90			45	45				15	30
			52.9%						360					360					345					375					405					180					45				
	Total ECTS						210	111	30					30					30					30					30					30					30				