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: Computer Graphics**	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 201	Graphic Design I	45	30			15	5	2																30				15													
I 202	Graphic Design II	45	30		15		4	2																					30			15									
I 203	New Media Art I	45	30			15	5	2																					30				15								
I 204	Graphical User Interface Programming	45	30			15	5	2																										30				15				
I 205	Web Programming	45	30		15		3	2																										30			15					
I 206	Diploma Thesis Seminar I	15			15		1																											30			15					
I 203	New Media Art II	45	30		15		3	2																										30			15					
I 206	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	13																5					9					12					1				
	Total number of exams																																									
	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
			53%						360					360					345					375					405					180					45				
	Total ECTS						210	112	30					30					30					30					30					30					30				