WROCLAW BUSINESS UNIVERSITY

field of study: COMPUTER ENGINEERING
level of studies: engineering studies
studies profile: practical
form of study: full-time/hybrid
specialties: software engineering, internet engineering, computer graphics and multimedia, computer networks and cybersecurity
academic year: 2023/2024, 2024/2025, 2025/2026, 2026/2027

Thematic block	Subject
semester 1	
Occupational health and safety	Occupational health and safety
Basic	Mathematical Analysis
	Logic and Set Theory
	ICT (Technologie informatyczno-komunikacyjne)
Major courses	Introduction to programming (C language)
	Practical Aspects of Electronics and Electrical Engineering
Social competences	Academic life
Foreign language	Polish/German/Spanish/English*
semester 2	
Foreign language	Polish/German/Spanish/English*
Physical education	Physical education
Basic	Physics
	Linear algebra with geometry
Major courses	Intellectual property protection
	Computer Architecture
	Fundamentals of digital technology
	Algorithms and Data Structures
	Operating Systems
	Introduction to software engineering
semester 3	
	Discrete mathematics
Major courses	Databases (SQL)
	English language in IT 1
	www Aplications (HTML)
	LINUX class server systems
	Object Oriented Programming (Java)
	Entrepreneurship/ Fundamentals of management
	Introduction to computer networks

semester 4	
PE	Physical education
Basic	Probabilistic Methods and Statistics
Major courses	Information technologies in business/IT systems in organization management
	Embedded systems
	English language in IT 2
	Cybersecurity
	Advanced programming language (Phyton)
Specialization	Specialization subject 1
Social competences	Integrative Design I
semester 5	
	Multimedia
	Artificial intelligence
	Engineering documentation and computer graphics
Social competences	Professional ethics
	Communication/Sociology
Specialization	Specialization subject 2
	Specialization subject 3
semester 6	
Specialization	Internship 1
	Specialization subject 4
	Specialization subject 5
	Engineering project I
Social competences	Integrative Design II
semester 7	
Specialization	Specialization subject 6
	Specialization subject 7
	Internship 2
	Engineering project II

* English classes are conducted on the Asseco educational platform, classes in other languages are conducted in the form of e-learning (MS Teams).
* English or Spanish (from B1)
* Spanish or German from the basics