



COMPUTER SCIENCE SECOND DEGREE STUDIES

PROFILE: PRACTICAL | DEGREE: MASTER | PROGRAM FOR 2023/2024 INTAKE: 2023/2024



FULL-TIME STUDIES

1.5-year second-cycle studies – 3 semesters

TOTAL NUMBER OF HOURS AND ECTS

ECTS credits: 90 No. of hours: 1345

LEGEND

FORM OF CREDIT: E - Exam, ZO - Graded credit, Z - Non-graded credit

COURSE TITLE	SEMESTER I					
	FULL-TIME STUDIES					
	ECTS	Lecture	Practical classes (eg. workshop)	Other	Form of credit	
Introduction Module: Introduction to Vistula University OHS training; Library training; Business etiquette; Introduction to Intercultural Communication	2			60	ZO	
Master Diploma Project I	2			50	Z0	
Management in IT	3	30	15		ZO	
Foreign Language 1	3		30	60	Z0	
SET1-Python for Artificial Intelligence-IT Elective I	5	30	30		E	
SET1-Signal Processing-IT Elective II	5	30	30		E	
SET2-Linux/Ubuntu Operating Systems-IT Elective I	5	30	30		E	
SET2-Introduction to Cloud Technologies-IT Elective II	5	30	30		E	
SET3-One of the other specialization course-IT Elective I	5	30	30		E	
SET3-One of the other specialization course-IT Elective II	5	30	30		E	
SPECIALIZATIONS TO CHOOSE						
SPECIALIZATION Design and applications of wireless networks for the Internet of Things						
Introduction to microprocessor systems	5	30	30		E	
Software design for microprocessor systems	5	30	30		Е	
SPECIALIZATION Design and applications of mobile applications						
Introduction to the design of mobile applications	5	30	30		Е	
Architectural patterns of websites for mobile devices	5	30	30		E	
SPECIALIZATION Cybersecurity and reliability of information and industrial systems						
Introduction to cybersecurity and reliability	5	30	30		E	
Methods of risk analysis and information and industrial systems design	5	30	30		E	
SPECIALIZATION Applied Data Science and AI						
NLP and Large Language Models	5	30	30		E	
Statistics & Mathematics for Artificial Intelligence	5	30	30		E	
	TOTAL: 80	TOTAL: 450	TOTAL: 465	TOTAL: 170		

COURSE TITLE		SEMESTER II FULL-TIME STUDIES					
	ECTS	Lecture	Practical classes (eg. workshop)	Other	Form of credit		
Master Diploma Seminar I	2			50	ZO		
Proseminar				5	Z		
Introduction to entrepreneurship and project management	3	30	15		ZO		
Foreign Language 2			30	60	E		
SET1-Applied Machine Learning-IT Elective III	5	30	30		E		
SET1-Data Analytics & Visualization with Python-IT Elective IV	5	30	30		E		
SET2-Designing the wireless network infrastructure-IT Elective III	5	30	30		E		
SET2-Security of wireless and mobile systems-IT Elecetive IV	5	30	30		Е		
SET3-One of the other specialization course-IT Elective III	5	30	30		E		
SET3-One of the other specialization course-IT Elective IV	5	30	30		E		
SPECIALIZATIONS TO CHOOSE							
SPECIALIZATION Design and applications of wireless networks for the Internet of Things							
Specification and simulation of communication protocols	5	30	30		E		
Applications of sensor networks	5	30	30		Е		
SPECIALIZATION Design and applications of mobile applications							
Graphic interfaces for mobile devices	5	30	30		E		
Mobile application testing	5	30	30		Е		
SPECIALIZATION Cybersecurity and reliability of information and industrial systems							
Cybersecurity and reliability management for information and industrial systems	5	30	30		E		
Cybersecurity and reliability testing for information and industrial systems	5	30	30		E		
SPECIALIZATION Applied Data Science and Al							
Deep Learning and Reinforcement Learning	5	30	30		E		
Big Data Analytics	5	30	30		E		
	TOTAL: 75	TOTAL: 450	TOTAL: 465	TOTAL: 115			
	CEMECTED III						
		SEMESTER III					

COURSE TITLE	OLIVILO I LIK III					
	FULL-TIME STUDIES					
	ECTS	Lecture	Practical classes (eg. workshop)	Other	Form of credit	
Master Diploma Seminar II	11			135	ZO	
INTERNSHIP						
Student internship	19			480	ZO	
	TOTAL: 30	TOTAL: 0	TOTAL: 0	TOTAL: 615		