

Information Systems Engineering

State code: 6531BX011

Study field: Computer Engineering

Study mode and scope of the study programme: Full-time studies - 3 years,

Part-time studies - 4 years.

The student will be able:

- to design, programme, install, improve and update computerized information systems;
- to install and administer computer networks and operating systems;
- to create and administer databases and websites;
- to apply information systems security principles;
- to work in a team and make decisions independently;
- to work successfully in competitive market conditions and develop in a professional field.

The student will:

- work as a system analyst, programmer, database administrator, user interface developer,
 computer network administrator in various companies and organizations;
- work as a manager and executor of IT projects.

	SUBJECT TITLE	ECTS CREDITS	ASSESSEMENT		
Semester I (30 Credits)					
	Speciality Language Culture	3	D		
	Mathematics	6	Е		
	Physics of Computer	6	E		
	Applied Programmes	3	D		
	Engineering Graphics	6	D		
Choice (choose one):					
	Foreign Language (English)	3	D		
	Foreign Language (French)	3	D		
	Foreign Language (Russian)	3	D		
	Foreign Language (German)	3	D		
Optional study subjects			·		
	Sociology	3	E		
	Sustainable Development	3	Е		
	Psychology	3	Е		
	Semester II (30 Credits)				
	Programming	6	D		
	Probability theory and statistics	3	E		
	Electronics and Electrical Engineering	6	E		
	Operations Systems	6	Е		
	Technological 1 Practice	6	D		
Choice (choose one):					
	Foreign Language (English)	3	E		
	Foreign Language (French)	3	Е		
	Foreign Language (Russian)	3	Е		
	Foreign Language (German)	3	Е		
	Semester III (30 Credits)				
	Sustainable Environment and Occupational	3			
	Safety	3			
	Software Engineering	3	E		
	Computers' Architecture	3	E		
	Information Systems Design	6	D		
	Discrete Mathematics	6	Е		
	Production Practice 1	6	D		
Choice (choose one):					
	Logistics System	3	D		
	Science Workshop Project	3	D		
	Programming in Python	3	D		
	Semester IV (30 Credits)				
	Database Management Systems	6	D		
	Computers Networks	3	Е		
	Data Structures and Algorithms	6	Е		
	Digital Device Programmin	3	Е		
	Applied Research	3	D		
	Production Practice 2	6	D		
Choice (choose one):					
	Information Systems Installation and	3	D		
	Support Project		_		
	Interdisciplinary Project	3	D		
	Computer Design	3	D		

Semester V (30 Credits)				
	Internet Technologies	6	D	
	Human and Computer Interacion	3	Е	
	Development of Mobile Applications	3	Е	
	Information Systems Security	6	Е	
	Project Management	3	D	
	Engineering Economics	3	D	
	Technological 2 Practice	6	D	
Semester VI (30 Credits)				
	Engineering Economics	3	Е	
	Law	3	E	
	IT Business Information Systems	3	Е	
	Final Practice	6	D	
	Final Thesis	12	D	
Choice (choose one):				
	Cloud Computing	3	D	
	Visual and Security Systems	3	D	
	Data Visualization Systems	3	D	

E - Exam

D - Independet work