	STUDY MODULE D	ESCRIPTION FORM	T	
Name of the module/subject Computer Science		Code 1011104411011160390		
Field of study Logistics - Part-time Elective path/specialty	studies - First-cycle	Profile of study (general academic, practica (brak) Subject offered in: Polish	I) Year /Semester 1 / 1 Course (compulsory, elective) obligatory	
Cycle of study:		Form of study (full-time,part-time		
First-cycle studies		part-time		
No. of hours		1	No. of credits	
Lecture: - Classe	s: - Laboratory: 14	Project/seminars:	- 2	
Status of the course in the study	r program (Basic, major, other) (brak)	(university-wide, from another	^{field)}	
Education areas and fields of science and art			ECTS distribution (number and %)	
technical sciences			2 100%	
Responsible for subj	ect / lecturer:			
dr Ryszard Danecki email: Ryszard.Danecki@ tel. (+4861)6653388 Faculty of Engineering M Strzelecka Str. 11, 60-96	anagement			
Prerequisites in term	ns of knowledge, skills an	d social competencies	:	
1 Knowledge	Basic knowledge of secondary s	knowledge of secondary school.		
2 Skills	Basic computer literacy.			
3 Social competencies	Able to work in computer labora	tory group.		
Assumptions and ob	jectives of the course:			
languages. They should be	amiliar with algorithmic thinking, th able to design and implement simp introduction to computer science of	ole algorithms in modern devel	lopment environment. They	
Study outco	omes and reference to the	educational results fo	r a field of study	
Knowledge:				
1. Student is able to explain	what is an algorithm and how it is	converted into a computer pro	ogram [(T1A_W02) K1A_W09	
	dge of Windows forms GUI interfac	-, , -		
3. Is able to characterize she [(InzA_W05) KInzA_W05]	ortly parts of computer science imp	portant for logistics and operation	ions research	
Skills:				
Ũ	lize flowcharts of algorithms and e ual Basic a graphical user interface	, ,		
	makimng problem in the way appr A_U14) K1A_U14]	opriate for further computerize	d solution	
Social competencies				
1. Is aware of computer data	a security and the interests and rig	hts of their users [(T1A_KO	2) K1A_K02]	
	Assessment metho	ds of study outcomes		

-Practical programming tests in laboratories.

Course description

-The general knowledge of computer science disciplines relevant to logistics. The notion of algorithm, flowchart and pseudo code. The evolution of programming languages with the emphasis on structural and object oriented languages. Structural control instructions. The GUI objects. Event driven applications.

Basic bibliography:

- 1. Visual Basic Microsoft Corporation Programmer's Guides and Manuals
- 2. The Internet resources for Visual Basic programmers

Additional bibliography:

- 1. David Harel, Yishai Feldman, Algorithmics: The Spirit of Computing , Springer Verlag 2012
- 2. Jack Purdum, Visual Basic .NET Primer Plus, SAMS Publishing 2007

Result of average student's workload

Activity	Time (working hours)	
1. Attendance and active participation in laboratory exercises	14	
2. Preparation for the final credits		14
Student's wo	rkload	
Source of workload	hours	ECTS
Total workload	28	2
Contact hours	14	1
Practical activities	14	1