				Bia	lystok Uni	versity of	Technolog	-			
Field of study	Computer Science Degree level and programme type								Engineer's degree full-time programme		
Specialization/ diploma path	Study p							Study profile	aca	demic	
Course name			Com	puter Gra	aphics			Course code		00010	
								Course type	obli	gatory	
Forms and number of hours of tuition	L	С	LC	Р	SW	FW	S	Semester		3	
	30	30 No. of ECTS credits								6	
Entry requirements	Linear Algebra (FCS-00030), Object Oriented Programming (FCS-00012), Creating images using a standard API to implement basic operations affine vector objects and raster image, creating and conducting usability										
Course objectives Course content	of text of Lecture: 1. Introd 2. Color 3. Methot 4. Bezie 5. Geom 6. Comp 7. Mathot 8. Basic 9. Comp 10. JPEG 11. JPEG 12. Basi 13. Ligh Speciali: 1. Graph 2. Graph 3. Color 4. Point 5. Methot 6. Histoo 7. Binari 8. Bézie 9. 2D tra 10. Mori	on an existi duction. A v r models. RC induction of a models. RC induction of a more recurves. metric trans position of a mentical m c raster algo puter anima G compress G 2000 com cic principles nting model ist workshop hic primitive hic file form r spaces. c transformation gram. rization. er curve. ransformatic rphological of	window app GB, CMYK, I roving the of formations elementary orphology i porithms. Breation. iion standar spression st s of 3D grap ing and reating and reating es and the nats. ations. roving the of	blication the use blication the HSV. RGB quality of in the 2D resemble transform in image pesenham I and transform t	at draws procube, HSV (mages, Poir plane, Trainations, processing, time drawing alization.	o support to support t	PM file form ns, histograi	of a graphical user interface at. m, filters, thresholding and auton ng. it-or-miss, dilatation, erosion, ope	natic threshold sele		
	11. Analysis and recognition of images. lecture problem, programming,										
Teaching methods		e - written ex		ııy,							
Assessment method	1	tory - exerci									
Symbol of learning outcome	Learning outcomes						outcomes for t	he field of study			
L01	is familiar with the basic concepts of computer graphics and computer graphics subsystem building						K_W10 K_W11				
LO2	knows the methods of representation and processing of digital images					K_W10 K_W11					
LO3	knows the technologies and methods used in the creation of graphical applications						K_W10 K_W11 K_U06 K_U11				
LO4	is able to use the known methods, algorithms and graphical libraries to build information systems						K_U10				
LO5	is able to present the results of experiments in graphic form						K_	U10			
LO6	is able to identify the technical and scientific use of computer graphics						K_U10				
Symbol of learning outcome	Methods of assessing the learning outcomes				Type of tuition during which the outcome is assessed						
L01	Written exam						L				
LO2	Written exam						L				
LO3	Projects						Sw				
LO4	Projects							Sw			
L05	Projects							5w			
LO6	Written exam, projects Student workload (in hours)							L, Sw			
			No. o	f hours							
	1. About done at lock was								I	30	
Calculation	1 - Attendance at lectures -										
	2 - Attendance at laboratories -								30 10		
	3 - Preparation for laboratories - 4 - Homeworks -								30		
	4 - Homeworks - 5 - Participation in student-teacher sessions -								10		
	5 - Participation in student-teacher sessions - 6 - Preparation of reports -								25		
	6 - Preparation of reports - 7 - Preparation for the exam -							15			
	/ - Prepara	acion for the	c exdiil -					TOTAL:		.50	
				(a_a) :	-11			TOTAL:		No. of ECTS	
Quantitative indicators Student workload - activities that require direct teacher participation						HOURS	credits				
	tudont	orklasd	•			toacher :	articin-ti-	n	70		
5	Student w	orkload -	•			teacher p	articipatio	n	70 (5)+(1)+(2) 95	2.8	

Author of the programme	dr inż. Marcin Skoczylas	April 5, 2019
Organisational unit conducting the course	Department of Digital Media and Computer Graphics	Date of issuing the programme
Supplementary references	1. A.Glassner, Principles of Digital Imagne Synthesis , Morgan Kaufmann Publ. San Francisco 1995	
Basic references	P.Shirley ,Fundamentals of Computer Graphics , A.K.Peters, Natick Massachusetts 2002	

L – lecture, C – classes, LC – laboratory classes, P – project, SW – specialization workshop, FW – field work, S – seminar

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