Program	Level		Seco	Second cycle				
	Name of th	e program	Theo	Theoretical Computer Science, Applied Mathematics				
COURSE								
Course title	Distributed Algorithms							
Course code	Semester	Course	e status	ECTS	С	ontact hours (L-	⊦AE+LE)	
CS 527	II	Electiv	e course	7		3+0+2		
Lecturer								
Course Goals	The aim of the course is to acquaint the student with the basic principles of distributed algorithms.							
	After successfully completing the course, the student will:							
Learning	- Master the basic techniques needed for developing distributed algorithms;							
Outcomes	- Learn to a	- Learn to apply knowledge from previous algorithmic courses to problems that occur in						
distributed systems								
COURSE CONTENT								
- Introduction to distributed computing								
- Graph vertices colouring								
- Algorithms on trees								
- Selecting the leader in the graph								
- Distributed softing Momory and objects in distributed systems								
- Memory and objects in distributed systems Synchronization								
- Synchronization Wireless protocols								
[1] David Peleg, Distributed Computing: A Locality-Sensitive Approach, SIAM (2000)								
[2] Hagit Attiva, Jennifer Welch, Distributed Computing: Fundamentals, Simulations and Advanced Topics								
McGraw-Hill Publishing, 1998								
[3] Juraj Hromkovic, Ralf Klasing, Andrzej Pelc, Peter Ruzicka, Walter Unger, Dissemination of Information								
in Communication Networks, Springer-Verlag, Berlin Heidelberg, 2005								
STUDENT WORKLOAD (hours in a semester)								
Lectures	45 Exe	ercises	30	Individual work	100	Total	175	
GRADING				REMARKS				
Critorion	Ma	ximum	Minimum					
Cintenoir	poi	nts	points					
Midterm exams	50		25					
Final exam	50		25					
Total)	55					