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	CTUDY MODULE D	CCOURTION FORM		
STUDY MODULE DESCRIPTION FORM				
Name of the module/subject  Concurrent program	ming		Code 010331541010335200	
Field of study		Profile of study	Year /Semester	
Information Enginee	ring	(general academic, practical) (brak)	2/4	
Elective path/specialty	-	Subject offered in: Polish	Course (compulsory, elective)  elective	
Cycle of study:		Form of study (full-time,part-time)		
First-cyc	First-cycle studies full-time		me	
No. of hours			No. of credits	
Lecture: 2 Classes	s: - Laboratory: 1	Project/seminars:	. 3	
Status of the course in the study		(university-wide, from another fie	·	
	(brak)	(1	orak)	
Education areas and fields of sci	ence and art		ECTS distribution (number and %)	
technical sciences			3 100%	
Responsible for subject / lecturer:				
dr inż. Krzysztof Zwierzyński email: Krzysztof.Zwierzynski@put.poznan.pl tel. +48 61 665 3755 Faculty of Electrical Engineering				
ul. Piotrowo 3A 60-965 Poznań  Prerequisites in terms of knowledge, skills and social competencies:				
1 Knowledge	Mathematics in the basics of ma oriented programming, using the understanding of the basic conce	Windows API, the basics of UN		
2 Skills	Ability to program in an object-oriented language. Design and analysis of combinatorial algorithms, including sorting and processing base of graphs. solve simple tasks in the field of mathematical analysis.			
3 Social competencies	Conscientiousness in communic	ating the results of laboratories.		
Assumptions and objectives of the course:				
Skills in programming				
Study outcomes and reference to the educational results for a field of study				
Knowledge:				
Skills:				
Social competencies:				
Assessment methods of study outcomes				

## Poznan University of Technology Faculty of Electrical Engineering

Programming in C, code optimization.

Optimize sequence.

Practical activities

Optimizing super-scalar.

Programming in OpenMP parallelism declarative.		
Development platforms, support for concurrency: Win32, .NET, Java	ì	
Programming in TBB, advanced optimization techniques (as hardwa	re)	
memory models		
Basic bibliography:		
Additional bibliography:		
Result of average stud	lent's workload	
Activity	Time (working hours)	
Student's wo	rkload	
Source of workload	hours	ECTS
Total workload	100	3
Contact hours	30	2

20