



The Faculty of:	Electrical and Computer Engineering
Field of study:	Computer Science
Speciality:	
Study degree (BSc, MSc):	MSc

COURSE UNIT DESCRIPTION

Course title:	Concurrent and distributed programming
Lecturer responsible for course: Dr. Bogdan Kwolek	
Contacts: phone: 1592	e-mail: bkwolek@prz-rzeszow.pl
Department : Department of Electrical Engineering and Informatics	

Semester	Weekly load	Type of classes				Number of ECTS credits
		L Lectures	C Theoretical Classes	Lb Laboratory	P Project	
6		30		10		5

Course description
<p>Lecture: Concurrent processes. Mutual exclusion, security and liveness, blocking, starvation, and fairness. Classical problems of concurrency. Messages and pipes in UNIX. Multi-thread programming in Windows. Java threads, communication and synchronization. Distributed programming in Java. Remote Method Invocation</p>
<p>Classes:</p>
<p>Laboratory: Threads in Java. Synchronization and communication. Sockets, RMI.</p>
<p>Project:</p>

Objectives of the course

The objective of the Concurrent and Distributed Programming is to prepare students to be a part of teams that specify, design, build, and implement concurrent/distributed systems/software. To accomplish this objective, students must understand how to use concurrent/distributed technology, including software, and communication, as basic components of large information systems. This understanding is based on a theoretical grounding as well as on experience in working both individually and in teams to solve software and computation problems.
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Examination method

Written examination.

Bibliography

Z. Weiss, T. Gruzlewski; Programowanie współbieżne i rozproszone; WNT, 1993

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