Poznan University of Technology
Faculty of Electrical Engineering

European **C**redit **T**ransfer **S**ystem

Title **Distributed Programming**	Code **1010332411010330680**
Field **Computer Science**	Year / Semester **1 / 1**
Specialty **-**	Course **core**
Hours Lectures: **1** Classes: **-** Laboratory: **1** Projects / seminars: **1**	Number of credits **3**
	Language **polish**

Lecturer:

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Status of the course in the study program:

Obligatory course at the Faculty of Electrical Engineering, field of study: Computer Science

Assumptions and objectives of the course:

Providing students with basic models of distributed systems and with general methods of communication and synchronization in systems of this type. Presentation of selected problems in design of distributed systems.

Contents of the course (course description):

Distributed programming vs. parallel programming, a distributed model of a parallel program, network transparency, client-server model, MPI library, synchronization of threads and processes, efficiency measures of distributed systems, design of distributed algorithms, elements of programming in the client-server model, problems of security and fault-tolerance in distributed systems, distributed programming in the multiparadigm programming methodology.

Introductory courses and the required pre-knowledge:

Fundamentals of programming, operating systems, network technologies.

Courses form and teaching methods:

Lectures illustrated with slides, laboratory exercises and project classes.

Form and terms of complete the course - requirements and assessment methods:

Examinations, exercises and projects.

Basic Bibliography:

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Additional Bibliography:

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