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Faculty of Electrical Engineering

Title Languages and pardigms of programming	Code 1010334441010330563
Field Computer Science	Year / Semester 2 / 4
Specialty	Course
- Hours	Number of credits
Lectures: 2 Classes: - Laboratory: 2 Projects / seminars: -	4
	Language
	polish

Lecturer:

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Status of the course in the study program:

Obligatory course, Faculty of Electrical Engineering, field Computer Science

Assumptions and objectives of the course:

Understanding different styles (and languages) of programming.

Clever using of constructs that are typical of object-oriented languages (C++, C#).

Competence for designing and implementing various algorithms in object-oriented style and language.

Contents of the course (course description):

Different styles of programming, choosing the correct style.

Basic paradigms of object-oriented programming (encapsulation, inheritance, polymorphism) and their implementation in C++ and C# languages.

Implementation of input-output instructions in C++ and C#.

Handling errors and exceptions in object-oriented languages.

Overloading functions and operators.

Dynamic storage management. Multi-thread programming.

Introductory courses and the required pre-knowledge:

Knowledge of mathematical programming foundations, knowledge of fundamental algorithms and data structures, skill of procedural programming (C).

Courses form and teaching methods:

Lectures illustrated with slides, laboratory exercises

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

Written tests, exercises

Basic Bibliography:

Additional Bibliography:

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