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Faculty of Electrical Engineering

Title Languges and paradigms of programming	Code 1010331431010330631
Field	Year / Semester
Computer Science	2/3
Specialty	Course
•	core
Hours	Number of credits
Lectures: 2 Classes: - Laboratory: 2 Projects / seminars: -	7
	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#, elements of Java language).

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.

Basic elements of programming in Java.

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:

Examinations and exercises

Basic Bibliography:

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