

Title Informative Methods in Physics and Techniqe	Code 1010401221010410177
Field TECHNICAL PHYSICS	Year / Semester 1 / 2
Specialty -	Course core
Hours Lectures: 1 Classes: 2 Laboratory: - Projects / seminars: -	Number of credits 4
	Language polish

Lecturer:

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Status of the course in the study program:

Core course of the study for Technical Physics, Faculty of Technical Physics.

Assumptions and objectives of the course:

Familiarize students with the basics of C++ allows the creation of numerical programs that address issues that arise in physics and engineering

Contents of the course (course description):

Programming in C++ (environment: Builder), input and output operations, the types and declarations, expressions and statements, arithmetic and logical functions, pointers and arrays, classes and objects, the principles of structured programming and object-oriented, overloading operators, inheritance, maintenance text and binary files

Introductory courses and the required pre-knowledge:

knowledge of the operating system Windows series, the basis of simple physical aspects of the basic course in physics at the direction of technical physics

Courses form and teaching methods:

lectures, laboratory exercises

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

computer based test, written examination

Basic Bibliography:

1. Symfonia C++, Jerzy Grębosz
2. C++ Builder dla każdego, Kent Reisdorph
3. Język C++, Bjarne Stroustrup
4. Algorytmy w C++, Robert Sedgewick

Additional Bibliography:

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