Poznan University of Technology
Faculty of Electronics and Telecommunications

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

Title **Introduction to computing**	Code **1018011110108220254**
Field **Electronics and Telecommunications**	Year / Semester **1 / 1**
Specialty **-**	Course **core**
Hours Lectures: **1** Classes: **-** Laboratory: **1** Projects / seminars: **-**	Number of credits **6**
	Language **polish**

Lecturer:

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Status of the course in the study program:

Obligatory course for students of Electronics and Telecommunications, First year.

Assumptions and objectives of the course:

Introduction to computing and to methodologies and techniques of computer programming using C++

Contents of the course (course description):

Computer organization. Machine languages, assembly languages, and high-Level languages. Variables and memory concepts. Arithmetic and relational operators. Control structures. Repetition structures. Functions: definitions, prototypes, templates and overloading. Arrays. Sorting algorithms. Pointers. Structures. Classes. Objects. Friend functions and classes. Inheritance. Dynamic memory management. Dynamic data structures.

Introductory courses and the required pre-knowledge:

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Courses form and teaching methods:

Lectures illustrated with computer presentations. Practical exercises in laboratories.

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

Individual projects, written exam

Basic Bibliography:

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Additional Bibliography:

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