

Title Object-oriented programming and databases	Code 10103222110103201094
Field Electrical Engineering	Year / Semester 1 / 1
Specialty -	Course core
Hours Lectures: 1 Classes: - Laboratory: 1 Projects / seminars: -	Number of credits 3
	Language polish

Lecturer:

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Status of the course in the study program:

Obligatory subject, Electrical Engineering Faculty, Field: Electrical Engineering, Full Time Graduate Studies

Assumptions and objectives of the course:

Learning theoretical and practical problems of object-oriented programming, acquiring skills of create object-oriented applications by means of .NET Visual C# environment and relation to databases.

Contents of the course (course description):

Structural and object-oriented programming, representation of physical reality by means data structure, declaration object types, static and dynamic object variables, fields and methods, constructors and destructors, visibility, inheritance, polymorphism, virtual and dynamic methods, abstract method, handling exceptions, characteristics of programming in Visual C# environments. Designing and elaborating of the main component controls, events, graphics and printing. Database components.

Introductory courses and the required pre-knowledge:

Base knowledge of computer science, C++ programming and SQL language

Courses form and teaching methods:

Auditorial lecture, laboratory exercises.

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

Passing laboratory exercises, written examination

Basic Bibliography:

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Additional Bibliography:

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