Title	Code
Programming platforms	**1010334451010330570**
Field: **Computer Science**	Year / Semester: **3 / 5**
Specialty: **-**	Course: **core**
Hours: Lectures: **8** Classes: **-** Laboratory: **8** Projects / seminars: **-**	Number of credits: **3**
	Language: **polish**

Lecturer:

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Status of the course in the study program:

Obligatory course at the Faculty of Electrical Engineering, field of study Computer Science.

Assumptions and objectives of the course:

Familiarize and use of the common programming and open source platforms.

Contents of the course (course description):

1. Microsoft .NET Framework 3.5, Windows Workflow Foundation 4.0,

Windows Presentation Foundation 3.5 ? programming platforms developing by Microsoft, they contain run environment (Common Language Runtime - CLR) and libraries of classes which support standard functionalities of software applications.

2. Eclipse ? community and Open Source tool for development of plug-in-able programming platform and infrastructure of applications which support development of Java programs. We use Eclipse platform in version 3.4.2.
3. WebSphere Environment as an application Server.
4. Model Driven Architecture methodology and use of IBM tools: Rational Software Architect i Rational Data Architect.
5. Design patterns.

All platforms are available for students on server.

Topics of laboratory exercises:

1. Introduction to .Net Framework platform, Object Oriented Programming in C# language.
2. Introduction to Eclipse platform, Object Oriented Programming in Java language.
3. Comparison of platforms:.Net and Java.
4. Relational database access with the use of ADO.NET interface.
5. Relational database access with the use of JDBC interface.
6. SVN as a version control system.
7. SVN and its applications.

Introductory courses and the required pre-knowledge:

Programming languages: Java i C#.

Courses form and teaching methods:

Lecture, laboratories.

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

Examination.

Basic Bibliography:

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Additional Bibliography:

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