



The Faculty of:	Electrical and Computer Engineering
Field of study:	Electronics and Telecommunications
Speciality:	
Study degree (BSc, MSc):	first circle full time studies

COURSE UNIT DESCRIPTION

Course title:	Programming in 3GL
Lecturer responsible for course: Grzegorz Dec, PhD	
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Department : Computer Science and Automatic Control	

Semester	Weekly load	Type of classes				Number of ECTS credits
		L Lectures	C Theoretical Classes	Lb Laboratory	P Project	
3	3	30		15		3

Course description
<p>Lecture:</p> <ol style="list-style-type: none"> 1. Object modeling in the UML, 2. Object-oriented programming. Methods of program assembly, processing instructions, creating GUI. 3. Handling communication interfaces. 4. Network programming. 5. Electronics devices programming. 6. Basics of Java language. 7. Document building principles. Using markups. 8. Applications of markups to building configuration files and information systems. 9. Scripting languages. Methods of program assembly, processing instructions. Javascript language. 10. Dynamics information systems.
<p>Classes:</p>
<p>Laboratory:</p> <ol style="list-style-type: none"> 1. UML Class Diagram. Generating Java code. 2. Sequence diagrams. Implementation of object's dynamics. 3. Collection in the Java language. 4. Network communication in the Java environment. 5. XML documents. Document validation. 6. Building GUI in the XHTML language. 7. Javascript and DOM – dynamics HTML.

Project:**Objectives of the course**

Applying a programming language to solve problems in the hardware and services programming . Creating software using languages presented on the lectures. Specifying basics requirements of program interfaces. Design and implementation of informations services for devices.

Examination method

Laboratory: reports from the classes
Lecture: a written test

Bibliography

1. Joseph Schmuller "UML dla kazdego", Helion, 2003
2. Bruce Eckel "Thinking in Java. Edycja polska. Wydanie IV", Helion 2006
3. Przemysław Kazienko, Krzysztof Gwiazda "XML na poważnie", Helion, 2002
4. Bryan Pfaffenberger, Steven M. Schafer, Chuck White, Bill Karow "HTML, XHTML i CSS. Biblia", Helion, 2005
5. Shelley Powers "JavaScript. Wprowadzenie", Helion, 2007

Lecturer signature	
Head of Department signature	
Dean signature	