Rzeszow University of Technology

The Faculty of:	Electrical and Computer Engineering
Field of study:	Computer Science
Speciality:	EA
Study degree (BSc, MSc):	**BSc**

COURSE UNIT DESCRIPTION

Course title:	Information systems engineering
Lecturer responsible for course: Grzegorz Dec, PhD **Contacts: phone: +48 17 8651486 e-mail: gdec@prz-rzeszow.pl**	
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	
7	3	20		10		4

Course description
Lecture: 1. Introduction to the UML language. UML in the process of information systems development. 2. Modeling functionality of a system using Use Case Diagram and Activity Diagram. 3. Modeling structures of a system using Class Diagram. 4. Modeling dynamics of a system using Sequence Diagrams and State Machine Diagrams. 5. Implementation of UML models in the Java language.
Classes:
Laboratory: 1. Use Case Diagrams. 2. Activity Diagrams. 3. Class Diagram 4. Sequence Diagrams. 5. State Machine Diagrams.
Project:

Objectives of the course
Modeling information systems using UML.
Examination method
Laboratory: Lecture: a written exam

Bibliography
1. M. Śmiałek - Zrozumieć UML 2.0. Metody modelowania obiektowego, Helion, Gliwice 2005 2. S. Wrycza, B. Marcinkowski, K. Wyrzykowski Język UML w modelowaniu systemów informatycznych, Helion, Gliwice 2005 3. M. O'Docherty Object Oriented Analysis & Design, John Wiley & Sons, 2005 4. P. Kroll, P. Kruchten The Rational Unified Process Made Easy: A Practitioner's Guide to the RUP, Addison Wesley, 2003 5. G. Pollice, L. Augustine, C. Lowe, J. Madhur Software Development for Small Teams: A RUP-Centric Approach, Addison Wesley, 2004

Lecturer signature	
Head of Department signature	
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