(faculty stamp)

COURSE DESCRIPTION

Z1-PU7 WYDANIE N1 Strona 1 z 2

	Course title: PROGRAMMING FOR THE J. FERPRISE EDITION	AVA PLATFORM,	2. Course code: JAVA_l	EE
	alidity of course description: 2017/2018			
4. L	evel of studies: 1 st cycle of higher education	l		
5. N	fode of studies: intramural studies			
6. F	ield of study: MACROFACULTY		(RAU)	
7. P	rofile of studies: general academic			
8. P	rogramme: Informatics			
9. S	emester: 7			
10.	Faculty teaching the course: Faculty Of Au	tomatic Control, Elec	ctronics and Informatics	
11.	Course instructor: dr inż. Krzysztof Dobosz	Z		
12.	Course classification: -			
13.	Course status: optional			
14.	Language of instruction: English			
15.	Pre-requisite qualifications:			
Con	npleted the course: "Introduction to Program	nming in Java" (semes	ster 6)	
16.	Course objectives:			
Th	is course learns using Java technology for er	nterprise computing a	nd web programming. The	set of exercises
	roduces to programming for web servers and		The course lets develop and	l deploy Java web
	plications and application server components	S		
	Description of learning outcomes:			
Nr	Learning outcomes description	Method of	Teaching methods	Learning outcomes
1.	Knowledge and ability to use object	assessment written test,	lecture, laboratory	reference code K_W12, K_U23
1.	persistence	laboratory task	lecture, laboratory	K_W12, K_025
2.	Knowledge and ability to create EJB	written test,	lecture, laboratory	K_W12, K_U23
	components	laboratory task	10000010, 100010001	11_012,11_020
3.	Knowledge and ability to create web	written test,	lecture, laboratory	K_W12, K_U23
	application using Java Servlets	laboratory task		
	specification	5		
4.	Knowledge and ability to design web GUI	written test,	lecture, laboratory	K_W12, K_U14
	with JSP, JSTL and custom tags	laboratory task	_	
5.	Knowledge and ability to use GWT library	written test,	lecture, laboratory	K_W12, K_U14
10	Too shing modes and houng	laboratory task		
18.	Teaching modes and hours			
Lec	ture / BA /MA Seminar / Class / Project /	Laboratory		
Lec	ture - 15 h, Class - , Laboratory – 30 h			

19. Syllabus description:

Lectures includes the following topics:

- 1. Genesis of ORM frameworks. Database applications using JPA.
- 2. Session EJBs. Session tracking. Singletons. Message-driven beans.
- 3. Controlling web applications with servlets.
- 4. Java Server Pages. Java Standard Tags Library. Custom tags.
- 5. From distributed computing to service-oriented architectures.
- 6. Asynchronous JavaScript. Implementations for Java EE.
- 7. Design patterns for Java EE Platform.

The laboratories covers the following topics:

- 1. Java Persistence API
- 2. Enterprise Java Beans
- 3. Java Servlets
- 4. Java Server Pages, JSTL and custom tags
- 5. Google Web Toolkit

20. Examination: no

21. Primary sources:

The Java Platform, EE7 (http://www.oracle.com/technetwork/java/javaee/overview/index.html)

22. Secondary sources:

- M. Keith, M. Schincariol. Pro JPA 2: Mastering the Java Persistence API. Apress 2009
- S. Bayern. JSTL in Action. Manning Publication Co. 2002.
- R. Hanson, A. Tacy.. GWT in Action. Manning Publication Co. 2007.
- B. Burje, R. Monson-Haefel. Enterprise JavaBeans 3.0. O'Reilly 2001
- J. Hunter, W. Crawford. Java Servlet Programming, 2nd Edition. O'Reilly 2001

23. Total workload required to achieve learning outcomes

Lp.	Teaching mode :	Contact hours / Student workload hours
1	Lecture	15 / -
2	Classes	- / -
3	Laboratory	30 / 15
4	Project	- / -
5	BA/ MA Seminar	- / -
6	Other	- / -
	Total number of hours	45 / 15

24. Total hours: 60

25. Number of ECTS credits: 2

26. Number of ECTS credits allocated for contact hours: 1.5

27. Number of ECTS credits allocated for in-practice hours (laboratory classes, projects): 1.5

26. Comments:

There is the ability to develop a part of the engineering work during laboratory classes.

Approved:

(date, Instructor's signature)

(date, the Director of the Faculty Unit signature)