(faculty s		Z1-PU7	WYDANIE N1 Stro	ona 1 z 2
(
1. Cou	urse title: : DEVELOPING ENTERPRISE APPLICATIONS	2. Course code		
3. Vali	idity of course description: 2018/2019			
4. Lev	el of studies: BSc programme			
5. Mo	de of studies: intramural studies			
6. Fiel	d of study: COMPUTER SCIENCE	(FACULTY SY	MBOL)	
7. Pro	file of studies: COMPUTER SCIENCE			
8. Pro	gramme:			
	nester: 6			
	culty teaching the course: Institute of Informatics, RAu2			
	purse instructor: Paweł Kasprowski, PhD			
	burse classification:			
	purse status: compulsory			
14. La	nguage of instruction: English			
15. Pr	e-requisite qualifications: Databases, programming			
16. Co	purse objectives: The purpose of the subject is to show student	how multi-trier a	applications run on a	application
serve	ers work. This topic is explained based on the most popular se	et of standards	athered under the	umbrella of
	Enterprise Edition.	·		
Durin	ig the course student will learn how to create all triers of the a	pplication starti	ng from database tri	er using JPA
(Java	a Persistence API) and logic trier using EJB (Enterprise Java I	Beans) and end	ing with REST trier	using JAX-RS
speci	fication. Students will build their applications in groups of 2-4	persons.		
17. De	escription of learning outcomes:			
Nr	Learning outcomes description	Method of	Teaching methods	Learning
		assessment		outcomes
				reference code
W1	Knows basic elements of enterprises applications	project	workshop	K1A_W09
W2	Knows JEE standards: JPA, EJB, JAX-RS	project	workshop	K1A_W12
W3	Has knowledge about functionality provided by application	project	workshop	K1A_W16
U1	servers Can develop a database using JPA standard	project	workshop	K1A_U16
U2	Has skills to prepare REST interface using JAX-RS standard	project	workshop	K1A_U24
U3	Is able to build an application deployed on application server that	project	workshop	K1A_U26
***	utilizes EJB standard			
K1	Understands pros and cons of the enterprise architecture	project	workshop	K1A_K01
K2 18. Tea	Is ready to collaborate in a group of programmers aching modes and hours	project	workshop	K1A_K02
	e / BA /MA Seminar / Class / Project / Laboratory			
Project				
-	Ilabus description:			
-	rities of enterprise applications			

Properties of enterprise applications Standards belonging to Java Enterprise Edition Modus operandi of application servers Configuration of enterprise applications – XML, annotations

20. Examination: none

21. Primary sources:

Bill Burke. RESTful Java with JAX-RS 2.0: Designing and Developing Distributed Web Services Mike Keith and Merrick Schincariol Pro JPA 2 in Java EE 8: An In-Depth Guide to Java Persistence APIs Francesco Marchioni Practical Java EE Development on WildFly

22. Secondary sources:

Internet sources presented during the lectures and laboratories

Lp.	Teaching mode :	Contact hours / Student workload hours	
1	Lecture	1	
2	Classes	1	
3	Laboratory	1	
4	Project	15/30	
5	BA/ MA Seminar	1	
6	Other	1	
	Total number of hours	15/30	
24. Tot	al hours: 45		
25. Nur	nber of ECTS credits: 1		
26. Nur	nber of ECTS credits allocated for contact hours:	1	
27. Nur	nber of ECTS credits allocated for in-practice hou	ırs (laboratory classes, projects): 1	
26 Cor	nments:		

Approved:

(date, Instructor's signature)

(date , the Director of the Faculty Unit signature)