

MODULE/ COURSE FORM

A. general information

To be completed by Course Team	Module name :				Module code: M23		
	Course name: Administration and Management of Oracle Database				Course code:		
	Faculty: INSTITUTE OF APPLIED INFORMATICS						
	Field of study: INFORMATICS			Level of education: first			
	Mode of study : Full-time		Learning profile: Practical		Speciality:. Database design and computer application programming		
	Year/ semester: 3/6		Module/ course status:. Mandatory			Module/ course language: Polish/English	
	Type of classes	lecture	lessons	lab	project	Tutorial	other (please specify)
	Course load	15		30			
	Module/ course objectives		Familiarization with the structures, tools and techniques of Oracle database administration				
Entry requirements		Knowledge of relational databases, SQL, basic knowledge of Oracle tools and programming in PLSQL					
LEARNING OUTCOME							
Nr	LEARNING OUTCOME DESCRIPTION					Learning outcome reference	
1	Identifies elements of physical and logical structure of the Oracle database					K_W05, K_W07 K_W14	
2	Knows the basic queries modifying instance and database and knows the basic perspectives of system tables					K_W05, K_W07 K_W14	
3	Understands the principles of backup and restore, and start and stop the server instance Oracle databases.					K_W05, K_W07 K_W14	
4	Uses the tools of administration and monitoring of Oracle database server					K_U18	
5	Construct SQL queries and PLSQL procedures in the administration and monitoring instances and Oracle database structures					K_U01, K_U18	
6	It develops and implements simple safety scenarios for instance and Oracle database					K_U10, K_U18	
7	It describes and differentiates the own knowledge and skills.					K_K01	
8	Declares the need for continuous training and professional development					K_K01	
9	Understands aspects of information confidentiality and security of data storage					K_K02, K_K03	
Assessment method						Learning outcome number	
1. Theoretical and practical final exam of the lecture material						01, 02, 03, 09	
2. Reports from completed homework						05, 06, 08	

3. Reports from completed laboratory exercises	04, 05, 06, 07	
STUDENT WORKLOAD		
	Number of hours	
	In all	including practical
Participation in lectures	15	15
Independent study of lecture topics	15	15
Participation in tutorials, labs, projects and seminars	30	30
Independent preparation for tutorials*	30	30
Preparation of projects/essays/etc. *	40	40
Preparation/ independent study for exams	15	15
Participation during consultation hours	5	5
Other	0	0
TOTAL student workload in hours	150	150
Number of ECTS credit per course unit	6 ECTS	
Number of ECTS credit associated with practical classes	6 ECTS	
Number of ECTS for classes that require direct participation of professors	2 ECTS	

B. details information

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	Course name: Administration and Management of Oracle Database				Course code:		
	Faculty: Institute of Applied Informatics						
	Field of study: INFORMATICS			Level of education: first			
	Mode of study : Full-time		Learning profile: Practical		Speciality:: Database design and computer application programming		
	Year/ semester: 3/6		Module/ course status:: Mandatory			Module/ course language: Polish/English	
	Type of classes	lecture	lessons	lab	project	Tuto rial	other (please specify)
	Course load	15		30			
Module/ course coordinator		dr inż. Jerzy Buriak					
Lecturer		dr inż. Jerzy Buriak					
CURRICULUM CONTENTS							
Lecture							
<ul style="list-style-type: none"> • Exploring the Oracle Database Architecture • Preparing the Database Environment and Creating an Oracle Database • Managing Database Instances • Configuring the Oracle Network Environment • Managing Database Storage Structures • Administering User Security • Managing Data Concurrency • Managing Undo Data • Implementing Oracle Database Auditing • Database Maintenance and Performance Management • Backup and Recovery Concepts • Performing Database Backups • Performing Database Recovery • Moving Data 							
laboratory							
<p>Laboratories complements the lecture. They will present in a practical way all the issues discussed during the lecture. Students perform tasks and examples of Oracle Academy course: D50102GC11P Oracle Database 11g: Administration Workshop I.</p> <p>Students are encouraged to do self-study using courses available within the Oracle Academy: D50079GC20 Oracle Database 11g: Administration Workshop II DBA Release 2 D64256GC11 Oracle Database: Program with PL / SQL D52601GC10P Oracle Database 11g: Advanced PL / SQL Angielski Student Subscription</p>							
Project (other)							

Basic literature	<p>Loney K.: Oracle Database 11g The Complete Reference, Oracle Press, 2010, ISBN-13: 978-0071598750, ISBN-10: 0071598758</p> <p>Bryla B., Loney K.: Oracle Database 12c DBA Handbook, Oracle Press, 2010, ISBN-13: 978-0071496636, ISBN-10: 0071496637</p>
Additional literature	<p>McLaughlin M.: Oracle Database 11g PL/SQL Programming Workbook, Oracle Press, 2010, ISBN-13: 978-0071494458, ISBN-10: 0071494456</p>
Teaching methods	<ol style="list-style-type: none"> 1) lecture and multimedia presentation. 2) exercises in the computer laboratory. 3) Blended-Learning 4) homework to self-realization 5) reporting
Form and terms of an exam	<p>50% of the grade is the result of the final exam of the lecture material. 56% of points is a minimum to pass the exam.</p> <p>50% of the grade is a rating of the laboratory. Laboratories are assessed on the basis of reports from realized in class exercises and homework assignments</p>