## 1.3. Module/ course form

	Module name :					Module code:			
ш	Course name: Administration and Management of Oracle Database					Course code:			
se Tea	Faculty: Institute of Applied Informatics								
Cour	Field of study: Informatics								
npleted by	Mode of study : Full-time			Learning profile: <b>Practical</b>			Speciality: Database design and computer application programming		
be co	Year/ semester: <b>3/6</b>			Module/ course status: Mandatory			Module/ course language: Polish/English		
To	Type of classes	lecture	le	essons	lab	proje	ct	Tuto rial	other (please specify)
	Course load	15			30				

Module/ course coordinator	dr inż. Jerzy Buriak
Lecturer	dr inż. Jerzy Buriak
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_W14	
	Knows the basic gueries modifying instance and database and knows the basic		
2	perspectives of system tables	K_W07	
		K_W14	
	Understands the principles of backup and restore, and start and stop the	K_W05	
3	server instance Oracle databases.		
		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	K_U01	
	monitoring instances and Oracle database structures	K_U18	
6	It develops and implements simple safety scenarios for instance and Oracle	K_U10	
	database	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
2		K K03

## **CURRICULUM CONTENTS**

- 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

## Tutorial

Lecture

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.

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

Basic literature	Loney K.: Oracle Database 11g The Complete Reference, Oracle Press, 2010, ISBN-13: 978-0071598750, ISBN-10: 0071598758 Bryla B., Loney K.: Oracle Database 12c DBA Handbook, Oracle Press, 2010, ISBN-13: 978-0071496636, ISBN-10: 0071496637
Additional literature	McLaughlin M.: Oracle Database 11g PL/SQL Programming Workbook, Oracle Press, 2010, ISBN-13: 978-0071494458, ISBN-10: 0071494456

Teaching methods	<ol> <li>lecture and multimedia presentation.</li> <li>exercises in the computer laboratory.</li> <li>Blended-Learning</li> <li>homework to self-realization</li> </ol>	
	5) reporting	
	Learning outcome number	
1. Theoretical and pract	01, 02, 03, 09	
2. Reports from comple	05, 06, 08	
3. Reports from comple	04, 05, 06, 07	

Form and terms of an	50% of the grade is the result of the final exam of the lecture material.
exam	56% of points is a minimum to pass the exam.
	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

STUDENT WORKLOAD			
	Number of hours		
Participation in lectures	15		
Independent study of lecture topics	10		
Participation in tutorials, labs, projects and	30		
seminars			
Independent preparation for tutorials*	25		
Preparation of projects/essays/etc.*	30		
Preparation/ independent study for exams	15		
Participation during consultation hours	5		
Other	0		
TOTAL student workload in hours	125		
Number of ECTS credit per course unit	5 ECTS		
Number of ECTS credit associated with	85		
practical classes	3,4 ECTS		
Number of ECTS for classes that require	50		
direct participation of professors	2 ECTS		