1.	**Field of study**	**Computer Science**
2.	Faculty	Faculty of Science and Technology
3.	Academic year of entry	2021/2022 (summer term)
4.	Level of qualifications/degree	second-cycle studies
5.	Degree profile	general academic
6.	Mode of study	full-time

Module: Object-relational database systems in biometry

Module code: W4-IN-S2-20-F-RSBwB

1. Number of the ECTS credits: 4

2. Learning outcomes of the module

code	description	learning outcomes of the programme	level of competence (scale 1-5)
M_001	Has essential knowledge on designing an object-relational database systems for biometry.	K_U03 K_U10 K_W02 K_W03 K_W05	1 1 1 1 1
M_002	Is able to choose suitable technical tools for solving a given problem.	K_K02 K_U01 K_U02 K_U05 K_U06 K_U08 K_U10 K_W03 K_W04 K_W06	1 1 1 1 1 1 1 1 1 1
M_003	Can prepare a technical documentation for a system.	K_U03 K_U04	1 1

3. Module description	
Description	This module prepares student for development of database systems dedicated for use in biometric systems.
Prerequisites	

4. Assessment of the learning outcomes of the module

code	type	description	learning outcomes of the module
W_001	Small exam	Short exam (or on-line test), verifying knowledge derived from the lecture and laboratories.	M_001, M_002
W_002	Passing project	Biometric database system project, and a system documentation.	M_001, M_002, M_003
W_003	Passing test	Passing test covering the whole topic.	M_001, M_002, M_003

5. Forms of teaching

code	form of teaching			required hours of student's own work		assessment of the learning outcomes of the module
	type	description (including teaching methods)	number of hours	description	number of hours	
Z_001	lecture	Classes are run as a lecture (15 hours) with use of a multimedia presentations. Classes in a traditional form, and e-learning.	15	Student should study auxiliary materials and the literature.	15	W_003
Z_002	laboratory classes	Project/lab classes in computer laboratory, and e-learning.	30	Literature and on-line study, and preparing a passing project.	60	W_001, W_002