1.	**Field of study**	**Computer Science**
2.	Academic year of entry	2016/2017 (summer term)
3.	Level of qualifications/degree	second-cycle studies
4.	Degree profile	general academic
5.	Mode of study	full-time

Module: Specialized databases and data base systems

Module code: 08-IN-BIO-S2-SBDISBD

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)
SBDISBD -U_4	Can justify use of data base servers as basics of specialized data base systems and choose a specific solution.	K_2_A_I_U01	1
SBDISBD -U_5	Can perform substantive analysis of the chosen field and develop appropriate data base structure storing required information.	K_2_A_I_U18 K_2_A_I_U22	3 2
SBDISBD -W_1	Knows and understands the need to use modern IT systems and IT technologies in data access.	K_2_A_I_W17	1
SBDISBD -W_2	Understands data base systems importance in connection with specialized IT systems.	K_2_A_I_W13 K_2_A_I_W19	1 2
SBDISBD -W_3	Can work with typical data base application interface allowing for searching , modification and removal of specific information.	K_2_A_I_W14	2

3. Module description

Description	Aim of the classes is to transfer knowledge concerning use of the known IT technologies in specialized medical systems on the example of hospital IT systems. Possible uses of the chosen data base servers for realization of tasks connected with storing and processing medical and multimedia data will also be presented.
Prerequisites	

4. Assessment of the learning outcomes of the module

code	type	description	learning outcomes of the module
SBDISBD _w _1	Control tests	Written tests (including these executed during classes, with use of computer).	SBDISBD -U_4, SBDISBD -U_5
SBDISBD _w _2	Exam	Multiple-choice test and several open questions.	SBDISBD -W_1, SBDISBD -W_2, SBDISBD -W_3

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	
SBDISBD _fs _1	lecture	Presenting educational content in verbal form with use of content visualization. Focusing on conceptually complex material and indication of sources. Content illustration on examples.	15	Familiarizing with the lecture subject matter using existing methods packages: textbooks, scripts, websites, etc.	15	SBDISBD _w_2
SBDISBD _fs _2	laboratory classes	Detailed preparation of the students to solve tasks indicating proceedings methodology and sequence of works. Designing base structure referring to the issue analyzed.	45	Solving tasks of subsequent issues together with analysis of the already existing solutions. Revision of the material presented during lectures and exercised during laboratory classes.	45	SBDISBD _w_1, SBDISBD _w_2