Course Syllabus

I. General Information

Course name	Programming project: programming, algorithms and databases
Programme	Computer science
Level of studies (BA, BSc, MA, MSc, long-cycle	BA
MA)	
Form of studies (full-time, part-time)	Full-time
Discipline	Computer science
Language of instruction	English

Course coordinator/person responsible	Rafał Lizut

Type of class (use only the types mentioned below)	Number of teaching hours	Semester	ECTS Points
lecture			3
tutorial			
classes			
laboratory classes	30	6	
workshops			
seminar			
introductory seminar			
foreign language			
classes			
practical placement			
field work			
diploma laboratory			
translation classes			
study visit			

Course pre-requisites	Knowledge of core and profile oriented subjects form the curriculum
	necessary to complete the task outlined in the BA thesis
	Knowledge of structural and object-oriented programming

II. Course Objectives

Designing application utilizing advanced programming techniques Finding a practical solution to a problem described in the BA thesis in a systematic way Developing the application and preparing documentation according to assumptions encompassed in BA thesis

Symbol		Reference to
Cymbol	Description of course learning outcome	programme learning
		outcome
	KNOWLEDGE	
W_01	The student has a basic knowledge of the technology he/she	K_W08
	has chosen to develop an application.	
	The student will be able to recall software development	
	knowledge necessary for scheduling the entire project;	
	describe the functionality of the application; locate source	
	code that implements the selected application functionality;	
	define a problem from the thesis and explain its solution	
	through the application.	
	SKILLS	
U_01	The student is able to design an application, and then	K_U02, K_U04,
	implement it using the selected technology; present his/her	K_U08, K_U17,
	programming project with particular attention to its	K_U23, K_U30
	functionalities; explain the principle of operation of individual	
	modules of the prepared application; work systematically,	
	which develops in him/herself the ability to punctuality; work	
	conscientiously, which results in creating software of the	
	highest quality that meets the functionalities assumed in the	
	BA's thesis.	
	SOCIAL COMPETENCIES	

III. Course learning outcomes with reference to programme learning outcomes

IV. Course Content

Developing a project and write an application according to the topic established in the selected BA seminar. Preparing project documentation according to the required specification. Conducting a presentation of the created application.

V. Didactic methods used and forms of assessment of learning outcomes

Symbol	Didactic methods (choose from the list)	Forms of assessment (choose from the list)	Documentation type (choose from the list)
		KNOWLEDGE	
W_01	Guided practice	Preparation /	Project rating card
		implementation	
		of the project	
		SKILLS	
U_01	Project-based	Preparation /	Project rating card
	learning	implementation of the	
	design thinking	project	
	9	SOCIAL COMPETENCIES	

VI. Grading criteria, weighting factors

A prerequisite for passing this course is preparing a project which is a practical part of the Bachelor's thesis

VII. Student workload

Form of activity	Number of hours
Number of contact hours (with the teacher)	50
Number of hours of individual student work	40

VIII. Literature

Basic literature
According to the seminar selected
Additional literature