

DESCRIPTION OF THE COURSE OF STUDY

Course code	0613-2INF-F37-PZ	
Name of the course in	Polish	Projekt zespołowy
	English	Team project

1. LOCATION OF THE COURSE OF STUDY WITHIN THE SYSTEM OF STUDIES

1.1. Field of study	Computer Science
1.2. Mode of study	Full-time
1.3. Level of study	Undergraduate engineering study
1.4. Profile of study	General academic
1.5. Person/s preparing the course description	Małgorzata Żabińska-Rakoczy
1.6. Contact	zabinska@ujk.edu.pl

2. GENERAL CHARACTERISTICS OF THE COURSE OF STUDY

2.1. Language of instruction	English
2.2. Prerequisites	Databases Object Oriented Programming Software engineering

3. DETAILED CHARACTERISTICS OF THE COURSE OF STUDY

3.1. Form of classes	Laboratories	
3.2. Place of classes	Courses in the UJK teaching rooms of the Faculty of Exact and Natural Science	
3.3. Form of assessment	credit with grade (laboratories)	
3.4. Teaching methods	laboratories, project – laboratory method (practical classes using software development tools)	
3.5. Bibliography	Required reading	1. M.Seidl, M.Scholz, Ch.Huemer, G.Kappel, UML @ Classroom: An Introduction to Object-Oriented Modeling, Springer 2015
	Further reading	WWW resources associated with tools and technologies related to project topic

4. OBJECTIVES, SYLLABUS CONTENT AND INTENDED LEARNING OUTCOMES

4.1. Course objectives (including form of classes)
<p>Knowledge (laboratories)</p> <p>C1. Team implementation of a larger programming project by students C2. Independent learning of new technologies necessary to complete the task C3. Learning the basic tools to improve the design process C4. Practicing good organization of design work; elements of IT project management</p> <p>Abilities (laboratories)</p> <p>C1. Acquiring the ability to create technical documentation of an IT project</p> <p>Social competence (laboratories)</p>

4.2. Detailed syllabus (including form of classes)

Laboratories:

1. Selection of the topic, discussion and assessment of the project's workload, division of work in the team.
2. Creating and presenting a Gantt chart
3. Discussion on selection of new technologies necessary to complete the task; presentations of new technologies
4. Creation of requirements specifications based on contacts with the user
5. Preparation of the initial vision and concept of the designed system
6. Determining the scope of responsibility of the system and assumptions for the project
7. Proposing a model of the system being created - visualized (e.g. using UML)
8. Milestone - creation and assessment of documentation, presentation of the progress of work, partial review, Gantt chart verification
9. Creating a system design - including the functional part
10. Creating a system design - including the database part
11. Designing a user-friendly interface (GUI)
12. System implementation; selection of method, sequence of work
13. Creating technical documentation, including the system user manual
14. Unit and integration testing; test plans, documenting tests
15. Acceptance testing; test plans, test cases, test documentation
16. Making corrections
17. Summary of work: presentation of work results - demonstration of the created systems, indications and discussions regarding further directions of system development
18. Peer review of the results of teams' design work and presentation of reviews; discussion.

4.3. Education outcomes in the discipline

Code	A student, who passed the course	Relation to learning outcomes
within the scope of KNOWLEDGE:		
W01	knows the subsequent stages of the software development process	INF1A_W13 INF1A_W16 INF1A_W18
within the scope of ABILITIES:		
U01	analyzes the project goal and divides work within the team	INF1A_U11 INF1A_U21 INF1A_U22
U02	is able to select technologies and IT tools appropriate to complete the task design	INF1A_U03 INF1A_U11-U13 INF1A_U14-U16 INF1A_U23
U03	prepares design documentation	INF1A_U05
U04	is aware of the need for communication between project team participants	INF1A_U05
U05	is active in team cooperation and division of project work	INF1A_U05
within the scope of SOCIAL COMPETENCE:		

4.4. Methods of assessment of the intended learning outcomes

Teaching outcomes (code)	Method of assessment (+/-)																				
	Oral answer			Project			Self-study			Group work											
	Form of classes			Form of classes			Form of classes			Form of classes			Form of classes			Form of classes			Form of classes		
	L	C	P	L	C	P	L	C	P	L	C	P	L	C	P	L	C	P	L	C	P
W01					+			+			+										
U0					+			+			+										
U02					+			+			+										
U03					+			+			+										
U04					+			+			+										
U05					+			+			+										

4.5. Criteria of assessment of the intended learning outcomes

Form of classes	Grade	Criterion of assessment
lecture (L)	3	at least 50% and not more than 60% of the total number of available points
	3,5	more than 60% and not more than 70% of the total number of available points
	4	more than 70% and not more than 80% of the total number of available points
	4,5	more than 80% and not more than 90% of the total number of available points
	5	more than 90% of the total number of available points
classes (C)	3	at least 50% and not more than 60% of the total number of available points
	3,5	more than 60% and not more than 70% of the total number of available points
	4	more than 70% and not more than 80% of the total number of available points
	4,5	more than 80% and not more than 90% of the total number of available points
	5	more than 90% of the total number of available points
project (P)	3	at least 50% and not more than 60% of the total number of available points
	3,5	more than 60% and not more than 70% of the total number of available points
	4	more than 70% and not more than 80% of the total number of available points
	4,5	more than 80% and not more than 90% of the total number of available points
	5	more than 90% of the total number of available points

5. BALANCE OF ECTS CREDITS – STUDENT’S WORK INPUT

Category	Student's workload	
	Full-time studies	Extramural studies
<i>NUMBER OF HOURS WITH THE DIRECT PARTICIPATION OF THE TEACHER /CONTACT HOURS/</i>		
<i>Participation in lectures</i>		
<i>Participation in laboratories/project</i>	60	
<i>Preparation for the exam</i>		
<i>Others</i>		
<i>INDEPENDENT WORK OF THE STUDENT/NON-CONTACT HOURS/</i>		
<i>Preparation for the lecture</i>		
<i>Preparation for the laboratories</i>		
<i>Preparation for the exam</i>		
<i>Gathering materials for the project</i>	15	
<i>Preparation of multimedia presentation</i>		
<i>Others*</i>		
TOTAL NUMBER OF HOURS	75	
ECTS credits for the course of study	4	

Accepted for execution (date and signatures of the teachers running the course in the given academic year)

.....