DESCRIPTION OF THE COURSE OF STUDY

Course code	0613-2INF-F48-AI				
Name of the course in	Polish	Aplikacje internetowe			
Name of the course in	English	Internet Applications			

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	dr hab. Dariusz Banaś prof. UJK
1.6. Contact	d.banas@ujk.edu.pl

2. GENERAL CHARACTERISTICS OF THE COURSE OF STUDY

2.1. Language of instruction	English				
2.2. Prerequisites	Programming fundamentals, Computer Networks, Databases				

3. DETAILED CHARACTERISTICS OF THE COURSE OF STUDY

3.1. Form of classes		lectures, laboratories, project					
3.2. Place of classes		Courses in the UJK teaching rooms of the Faculty of Exact and Natural Science					
3.3. Form of assessm	ent	credit with grade (lectures, laboratories, project)					
3.4. Teaching method	ds	lectures— informative lectures laboratories, project – laboratory method					
3.5. Bibliography	Required reading	 A. Sharma, A. Gupta, V. Sharma Fundamentals of Internet Applications, 2nd Edition, ISBN 81-89510-25-8 E. Andersson, P. Greenspun Software Engineering for Internet Applications, Cambridge MIT Press 					
	Further reading	 A. Navarro, XHTML, V. DeBolt, HTML i CSS, www.w3schools.com 					

4. OBJECTIVES, SYLLABUS CONTENT AND INTENDED LEARNING OUTCOMES

4.1. Course objectives (including form of classes)

Knowledge (lectures and laboratories)

- C1. Familiarization with the basic technologies enabling the presentation of information on the WWW.
- C2. Learning about advanced technologies for building websites and programming web applications.

Abilities (laboratories and project)

C1. Acquiring the ability to practically apply the acquired technologies to build websites and Internet applications.

4.2. Detailed syllabus (including form of classes)

Lectures and laboratories:

- 1. Basic components of WWW architecture: HTTP protocol, browsers, HTTP server.
- 2. Programming languages enabling the design, development and creation of standard websites:
- HTML language, cascading style sheets (CSS) and their interactive and dynamic versions: PHP, ASP, JavaScript, Ajax.
- 3. Static and dynamic page structure, positioning of elements on the page, transfer of parameters between the parties.
- 4. Cooperation with databases. Forms and checking the correctness of entered data.
- 5. XML language and its implementations.
- 6. Basics of technology: Flash, SVG and SMIL.
- 7. Content management systems (CMS).
- 8. Basics of ASP.NET technology.
- 9. Creating simple web applications using ASP.NET technology, C# language and engine
- RAZOR renderer.

Code	A student, who passed the course	Relation to learning outcomes	
	within the scope of KNOWLEDGE :		
W01	explains the basic principles of operation of the WWW information system	INF1A_W10-11 INF1A_W14-15 INF1A_W22	
W02	explains the basic technologies used to create static websites websites and understands their limitations	INF1A_W11 INF1A_W14-15	
W03	explains advanced technologies used to create dynamic websites	INF1A_W06-07 INF1A_W11	
W04	knows the scripting programming language and describes its limitations and explains the difference in way of interpreting various scripting languages	INF1A_W06-07 INF1A_W11	
W05	knows the basic methods and selected language for creating Internet applications	INF1A_W06-07 INF1A_W11	
W06	lists methods of communication between a web application and a database	INF1A_W06-07 INF1A_W12 INF1A_W16	
	within the scope of ABILITIES:		
U01	can create an advanced static website and place it on a server	INF1A_U10-12 INF1A_U16	
U02	can choose technologies and use them to create a dynamic website	INF1A_U09-12 INF1A_U16 INF1A_U22	
U03	can design and prepare a simple web application using technologies learned	INF1A_U08-12 INF1A_U16	
U04	can create a website and/or a Internet application that uses data collected in the database	INF1A_U10-12 INF1A_U15-16	
U05	is able to prepare documentation of the completed design task	INF1A_U10-12 INF1A_U16	
U06	understands the need for continuous education	INF1A_U24	
	within the scope of SOCIAL COMPETENCE :		
K01	identifies the opportunities offered by the opportunity to present yourself and your achievements	INF1A_K04	
K02	understands the need to protect intellectual property	INF1A_K03	
K03	is able to plan and time assigned project tasks	INF1A_K02	

·		Method of assessment (+/-)																			
Teaching outcomes (code)	Ora	ıl ans	wer]	Projec	et	Se	lf-stu	dy	•	Grouj work										
	Form of classes			Form of classes		Form of classes		Form of classes		Form of classes		Form of classes		Form of classes							
	L	C	Р	L	C	P	L	С	P	L	C	P	L	C	Р	L	C	P	L	С	F
W01	+																				
W02	+																				
W03	+																				
W04	+																				
W05	+																				
W06	+																				
U01						+		+				+									
U02						+		+				+									
U03						+		+				+									
U04						+		+				+									
U05						+		+				+									
U06						+		+				+									
K01	+																				
K02	+																				
K03	+																				

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

	Student's	workload
Category	Full-time studies	Extramural studies
NUMBER OF HOURS WITH THE DIRECT PARTICIPATION OF		
THE TEACHER /CONTACT HOURS/		
Participation in lectures	30	
Participation in laboratories/project	45	
Preparation for the exam		
Others		
INDEPENDENT WORK OF THE STUDENT/NON-CONTACT HOURS/		
Preparation for the lecture		
Preparation for the laboratories	30	
Preparation for the exam		
Gathering materials for the project	20	
Preparation of multimedia presentation		
Others*		
TOTAL NUMBER OF HOURS	125	
ECTS credits for the course of study	5	

Accepted for execution	(date and signatures	s of the teachers runni	ing the course in the	given academic ye