COURSE DESCRIPTION

Course code	full-time studies	
	part-time-studies	
Course name	**Aplikacje internetowe**	
Course name in English	**Internet applications**	
Valid from academic year	**2022/23**	

PLACEMENT IN THE TEACHING PROGRAM

Field of study	**Computer Science**
Level of education	**1st degree**
Studies profile	**General**
Form and method of teaching classes	**Full-time and part-time studies**
Specialization	**All specializations**
Organizational unit responsible for the course	**Katedra Informatyki Stosowanej**
Course coordinator	**Dr inż. Jarosław Wikarek**
Approved by	**Dean of the Faculty of Electrical Engineering, Automatic Control and Computer Science Roman Deniziak, KUT prof., DSc, PhD**

GENERAL CHARACTERISTIC OF THE COURSE

Course affiliation		**main subject**
Course status		**Obligatory**
Language		**English**
Semester	full-time studies	**Semester V**
	part-time-studies	**Semester V**
Requirements		**Computer networks**
Exam (YES/NO)		**YES**
ECTS		**4**

Course form		lecture	classes	laboratory	project	other
Hours per semester	full-time studies	**30**		**15**		
	part-time-studies	**18**		**9**		

LEARNING RESULTS

Category	Result Symbol	Learning Results	References to the field of study results
Knowledge	W01	Knows and understands the basic concepts related to the architecture of websites.	INF_W19
Knowledge	W02	Knows issues related to the installation and configuration of servers for selected services: http, e-mail, ftp.	INF_W19
Knowledge	W03	Knows and understands issues related to the way of writing websites in various technologies.	INF_W19
Knowledge	W04	Knows the rules of safe writing on the web.	INF_W19
Skills	U01	Can write websites in various technologies.	INF_U19
Skills	U02	Can configure servers of selected services.	INF_U19
Skills	U03	Able to acquire and publish information on the web.	INF_U19
Social competence	K01	Knows how to prioritize activities.	INF_K1
Social competence	K02	He is ready to work in a team, solve tasks together.	INF_K2

COURSE CONTENT

Course Form	Content
lecture	1. Basic elements of web architecture: HTTP protocol, browsers, HTTP server. 2. Installation and configuration of servers of selected network services. 3. Building web applications. 4. Programming languages for designing and creating standard websites: HTML, Cascading Style Sheets (CSS) and their interactive and dynamic versions. Cooperation with databases. 5. XML language and its implementations. 6. Content management systems. 7. Mechanisms of obtaining information. Website positioning - Google search engine. 8. Security of information systems
laboratory	1. Configuration of selected web service servers. 2. Network service protocols. 3. Writing websites. 4. Content management systems. XML.

LEARNING RESULTS VERIFICATION METHODS

Result Symbol	Learning results verification methods					
	Oral Exam	Written Exam	Midterm	Project	Report	Other
W01		X			X	
W02		X			X	
W03		X			X	
W04		X			X	
U01					X	
U02					X	
U03					X	
K01					X	
K02					X	

ASSESSMENT FORMS AND CRITERIA

Course Form	Assessment Form	Assessment Criteria
lecture	exam	Obtaining at least 50% of the points in the written test
laboratory	pass with a grade	Average grade for completing tasks in class and reports.

STUDENT'S VOLUME OF WORK

No.	Activity Type	Student Involvement										Unit
		full-time studies					part-time-studies					
1.	Participation in classes according to the schedule	Lec	C	Lab	P	S	Lec	C	Lab	P	S	h
		30		15			18		9			
2.	Other (consultations, exams)	2		2			1		1			h
3.	**Total with the direct assist of an academic teacher**	**49**					**29**					h
4.	**Number of ECTS, that students obtains with the direct assist of an academic teacher**	**1,96**					**1,16**					ECTS
5.	**Hours of unassisted student work**	**51**					**71**					h
6.	**Number of ECTS that student obtains working unassisted**	**2,04**					**2,84**					ECTS
7.	**Practical classes volume of work**	**15**					**9**					h
8.	**Number of ECTS obtained by student at practical classes**	**0,60**					**0,36**					ECTS
9.	**Total student's volume of work expressed in hours**	**100**					**100**					h
10.	**ECTS**	**4**										ECTS

Table title: ECTS Balance

BIBLIOGRAPHY

1. PHP 8 Programming Tips, Tricks and Best Practices: A practical guide to PHP 8 features, usage changes, and advanced programming techniques. Doug Bierer.
2. HTML and CSS The Comprehensive Guide. Jürgen Wolf
3. Introduction To XML: A Complete Course. Baco Ray
4. Nginx HTTP Server - Fourth Edition: Harness the power of Nginx to make the most of your infrastructure and serve pages faster than ever before. Martin Fjordvald.