

FACULTY W-8

**SUBJECT CARD**

**Name in English:** Programming of Web-based systems  
**Name in Polish:** Programowanie systemów webowych  
**Main field of study (if applicable):** Computer Science  
**Specialization (if applicable):**  
**Level and form of studies:** 1<sup>st</sup>, full-time  
**Kind of subject:** optional  
**Subject code** INZ000274W1  
**Group of courses:** YES

	Lecture	Classes	Laboratory	Project	Seminar
Number of hours of organized classes in University (ZZU)	15		30		
Number of hours of total student workload (CNPS)	60		60		
Form of crediting	Crediting with grade		Crediting with grade		
For group of courses mark (X) final course	X				
Number of ECTS points	2		2		
including number of ECTS points for practical (P) classes	0		2		
including number of ECTS points for direct teacher-student contact (BK) classes	1,2		1,2		

\*delete as applicable

**PREREQUISITES RELATING TO KNOWLEDGE, SKILLS AND OTHER COMPETENCES**

1. Basic knowledge of structured and object-oriented programming
2. Basic database skills

**SUBJECT OBJECTIVES**

C1 Acquisition of knowledge and skills in developing systems that are based on client-server communication and use HTTP.

**SUBJECT EDUCATIONAL EFFECTS**

relating to knowledge:

PEK\_W01 Identifies and explains the functionality of selected programming language commands

PEK\_W02 Selects appropriate technology for programming Web-based systems' components

relating to skills:

PEK\_U01 Adapts, arranges and rearranges working systems or their components in accordance with the submitted requirements

PEK\_U02 Constructs simple web-based systems in accordance with the submitted requirements

relating to social competences:

PEK\_K01 Presents the results of his or her work

<b>PROGRAMME CONTENT</b>		
<b>Form of classes – lecture</b>		<b>Number of hours</b>
Lec1	Internet and Web - Introduction	2
Lec2	Introduction to HTML5	2
Lec3	Introduction to CSS3	2
Lec4	Selected elements of JavaScript	2
Lec5	Document Object Model and event handling	2
Lec6	Working with WWW Server and basic PHP	2
Lec7	Introduction to Programming in ASP.NET	2
Lec8	Credit test	1
	Total hours	<b>15</b>
<b>Form of classes - laboratory</b>		<b>Number of hours</b>
Lab 1	Introductory classes: presentation of health and safety regulations, fire protection rules as well as grading and class policies.	2
Lab 2	HTML5 Programming Basics Part 1	2
Lab 3	HTML5 Programming Basics Part 2	2
Lab 4	CSS3 Programming Basics Part 1	2
Lab 5	CSS3 Programming Basics Part 2	2
Lab 6	JavaScript programming	2
Lab 7	DOM and event handling	2
Lab 8	XAMPP i ASP.NET – running environments	2
Lab 9	Programming in PHP Part 1	2
Lab 10	Programming in PHP Part 2	2
Lab 11	Programming in PHP Part 3	2
Lab 12	Programming in ASP.NET Part 1	2
Lab 13	Programming in ASP.NET Part 2	2
Lab 14	Programming in ASP.NET Part 3	2

Lab 15	Credit	2
	Total number of hours	<b>30</b>
<b>TEACHING TOOLS USED</b>		
N1. Lectures illustrated with multimedia boards N2. Laboratory exercises using appropriate programming environments N3. The e-learning system for publishing course materials and receiving students' work N4. Student's individual work based on the lists of tasks N5. Student's individual work - credit preparation N6. The e-learning system conducting the test credit		

## EVALUATION OF SUBJECT EDUCATIONAL EFFECTS ACHIEVEMENT

<b>Evaluation</b> (F – forming (during semester), P – concluding (at semester end))	<b>Educational effect number</b>	<b>Way of evaluating educational effect achievement</b>
F1 – F6 (Lab2 – Lab7)	PEK_W01 PEK_U01 PEK_K02	Scoring on a scale (0-10).
F7 – F12 (Lab9 – Lab14)	PEK_W01 PEK_U01 PEK_U02 PEK_K02	Scoring on a scale (0-10).
P Lab	PEK_W01 PEK_U01 PEK_U02 PEK_K02	The pass mark is 50% of the points. Other evaluation by proportionate ranges from 50% to 100% of the points.
P Lec	PEK_W01 PEK_W02	The pass mark is 50% of correct answers in the test credit. Other assessment by proportional ranges from 50% to 100% correct answers.
<b>PRIMARY AND SECONDARY LITERATURE</b>		
<b><u>PRIMARY LITERATURE:</u></b> [1] Paul Deitel, Harvey Deitel, Abbey Deitel: Internet & World Wide Web: How to Program, Fifth Edition, Prentice Hall, 2011		
<b><u>SECONDARY LITERATURE:</u></b> [1] Brian P. Hogan: HTML5 and CSS3: Develop with Tomorrow's Standards Today, Pragmatic Programmers, 2011 [2] Stoyan Stefanov: Object-Oriented JavaScript, Packt Publishing, 2010 [3] Julie C. Meloni: PHP, MySQL and Apache All in One (5th Edition), Sams Teach, 2012 [4] Bill Evjen, Scott Hanselman, Devin Rader: Professional ASP.NET 4 in C# and VB, Wiley Publishing, 2010		
<b>SUBJECT SUPERVISOR (NAME AND SURNAME, E-MAIL ADDRESS)</b>		
<b>Ziemowit Nowak, ziemowit.nowak@pwr.wroc.pl</b>		

MATRIX OF CORRELATION BETWEEN EDUCATIONAL EFFECTS FOR  
SUBJECT  
**Programming of Web-based systems**  
AND EDUCATIONAL EFFECTS FOR MAIN FIELD OF STUDY  
**Computer Science**

Subject educational effect	Correlation between subject educational effect and educational effects defined for main field of study and specialization (if applicable)**	Subject objectives***	Programme content***	Teaching tool number***
PEK_W01	K1INF_W06	C1	Lec2-Lec7	N1, N5, N6
PEK_W02	K1INF_W05, K1INF_W07	C1	Lec1-Lec7	N1, N5, N6
PEK_U01	K1INF_U04, K1INF_U09, K1INF_U14	C1	Lab2-Lab7, Lab9-Lab14	N2, N3, N4
PEK_U02	K1INF_U04, K1INF_U09, K1INF_U11, K1INF_U14	C1	Lab9-Lab14	N2, N3, N4
PEK_K01	K1INF_U12	C1	Lab2-Lab7, Lab9-Lab14	N2

\*\* - enter symbols for main-field-of-study/specialization educational effects

\*\*\* - from table above