



MODULE DESCRIPTION

Module code	
Module name	Projektowanie Aplikacji Internetowych
Module name in English	Internet Application Design
Valid from academic year	2012/2013

MODULE PLACEMENT IN THE SYLLABUS

Subject	Computer Science
Level of education	1st degree <i>(1st degree / 2nd degree)</i>
Studies profile	General <i>(general / practical)</i>
Form and method of conducting classes	Full-time <i>(full-time / part-time)</i>
Specialisation	
Unit conducting the module	The Department of Control and Management Systems
Module co-ordinator	Jarosław Wikarek, PhD, Eng.
Approved by:	

MODULE OVERVIEW

Type of subject/group of subjects	Major <i>(basic / major / specialist subject / conjoint / other HES)</i>
Module status	Compulsory <i>(compulsory / non-compulsory)</i>
Language of conducting classes	Polish
Module placement in the syllabus - semester	5th semester
Subject realisation in the academic year	Winter semester <i>(winter / summer)</i>
Initial requirements	Computer Networks, Operating Systems 2 <i>(module codes / module names)</i>
Examination	No <i>(yes / no)</i>
Number of ECTS credit points	4

Method of conducting classes	Lecture	Classes	Laboratory	Project	Other
Per semester	30		15		

TEACHING RESULTS AND THE METHODS OF ASSESSING TEACHING RESULTS



Projekt współfinansowany ze środków Unii Europejskiej w ramach Europejskiego Funduszu Społecznego

Module target	The aim of the module is to present basic information on typical technologies utilised in creating Internet applications. The range of the subject covers diverse aspects of building Internet and Intranet applications (based on WWW servers). Various techniques and technologies will be presented, e.g. HTTP/HTTPS, CGI/Fast CGI, and XML-RPC. HTTP protocol will be thoroughly discussed (as well as server-browser relationship). Both languages and technologies as regards building Internet applications will be presented, e.g. HTML/XHTML, CSS, PHP, XML, XSLT, and Flash. The issues of authorising a user, a session, profiles, website personalization, as well as data storage in databases will be discussed. Practical experiments concerning building Internet applications will be conducted.
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Effect symbol	Teaching results	Teaching methods (l/c/l/p/other)	Reference to subject effects	Reference to effects of a field of study
W_01	A student is acquainted with basic notions connected with various technologies of building websites.	I	K_W06	T1A_W03 T1A_W07 InzA_W02
W_02	A student is familiar with various technologies of publishing materials on the Internet.	I/I	K_W06	T1A_W03 T1A_W07 InzA_W02
W_03	A student is knowledgeable about basic principles of writing websites using different technologies.	I/I	K_W06	T1A_W03 T1A_W07 InzA_W02
W_04	A student has knowledge as regards the server installation and configuration of services available on the Internet.	I	K_W10	T1A_W04 T1A_W07 InzA_W02 InzA_W05
W_05	A student is familiar with the principles of safe website making.	I/I	K_W06	T1A_W03 T1A_W07 InzA_W02
U_01	A student is able to make websites in different technologies.	I	K_U12	T1A_U08, T1A_U09, T1A_U16 InzA_U01 InzA_U08
U_02	A student can configure servers of the selected services.	I/I	K_U12	T1A_U08, T1A_U09, T1A_U16 InzA_U01 InzA_U08
U_03	A student is capable of gaining information from the Internet.	I	K_U01	T1A_U01 T1A_U07
K_01	A student can determine activity priorities.	I	K_U02	T1A_U02
K_02	A student is capable of teamwork and solving tasks collectively.	I	K_U02	T1A_U02

Teaching contents:

Teaching contents as regards lectures

Lecture number	Teaching contents	Reference to teaching results for a module
1	Introduction to the subject. Information systems.	W_01 W_02
2,3	Internet information services. Apache server installation and configuration.	W_03 W_04 U_02 W_05
3	An encrypted connection – mod_rewrite module	W_04 W_05



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4	HTTP protocol	W_04 W_05
5	FTP protocol.	W_04
6	Electronic mail.	W_03 W_04
7	Website making.	W_01 W_02 W_03
8	CSS style sheets.	W_01 W_02 W_03
9,10	PHP.	W_01 W_02 W_03
11	Other technologies of making websites.	W_01 W_02 W_03
12	XML	W_01 W_02 W_03
13	Information gaining. Google browser.	W_01 W_02 W_03 U_03
13	Peer to Peer networks.	W_01 W_02
14	Systems safety.	W_05

Teaching contents as regards laboratory classes

Laboratory classes are conducted in teams of two.

Laboratory class number	Teaching contents	Reference to teaching results for a module
1	Introduction to the subject matter of laboratory classes; familiarising students with the laboratory environment and the principles of work.	W_02 K_01 K_02
2	Apache server configuration.	W_04 W_05 U_02 K_01 K_02
3	HTTP, FTP, SMTP, and POP 3 protocols.	W_02 W_03 U_01 K_01 K_02
4	HTML, CSS	W_02 W_03 U_01 K_01 K_02
5,6	PHP	W_02 W_03 U_01 K_01 K_02
7	XML	W_02 W_03 U_01 K_01 K_02
8	A final test.	

The methods of assessing teaching results

Effect symbol	Methods of assessing teaching results <i>(assessment method, including skills – reference to a particular project, laboratory assignments, etc.)</i>
W_01	A final test on the lectures. Reports on laboratory classes.
W_02	A final test on the lectures. Reports on laboratory classes.
W_03	A final test on the lectures. Reports on laboratory classes.
W_04	A final test on the lectures. Reports on laboratory classes.
W_05	A final test on the lectures. Reports on laboratory classes.
U_01	Reports on laboratory classes.
U_02	Reports on laboratory classes.
U_03	Reports on laboratory classes.
K_01	Reports on laboratory classes.
K_02	Reports on laboratory classes.

STUDENT'S INPUT

ECTS credit points		Student's workload
Type of student's activity		



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1	Participation in lectures	30
2	Participation in classes	
3	Participation in laboratories	15
4	Participation in tutorials (2-3 times per semester)	5
5	Participation in project classes	
6	Project tutorials	
7	Participation in an examination	
8		
9	Number of hours requiring a lecturer's assistance	50 <i>(sum)</i>
10	Number of ECTS credit points which are allocated for assisted work <i>(1 ECTS credit point=25-30 hours)</i>	2
11	Unassisted study of lecture subjects	10
12	Unassisted preparation for classes	
13	Unassisted preparation for tests	
14	Unassisted preparation for laboratories	10
15	Preparing reports	10
16	Preparing for a final laboratory test	10
17	Preparing a project or documentation	
18	Preparing for an examination	10
19	Preparing questionnaires	
20	Number of hours of a student's unassisted work	50 <i>(sum)</i>
21	Number of ECTS credit points which a student receives for unassisted work <i>(1 ECTS credit point=25-30 hours)</i>	2
22	Total number of hours of a student's work	100
23	ECTS credit points per module <i>1 ECTS credit point=25-30 hours</i>	4
24	Work input connected with practical classes <i>Total number of hours connected with practical classes</i>	50
25	Number of ECTS credit points which a student receives for practical classes <i>(1 ECTS credit point=25-30 hours)</i>	2