



MODULE DESCRIPTION

Module code	
Module name	Projektowanie interfejsów użytkownika
Module name in English	User Interface 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	Computer Graphics
Unit conducting the module	The Department of Computer Science
Module co-ordinator	Barbara Strug
Approved by:	

MODULE OVERVIEW

Type of subject/group of subjects	Major <i>(basic / major / specialist subject / conjoint / other HES)</i>
Module status	Non-compulsory <i>(compulsory / non-compulsory)</i>
Language of conducting classes	Polish
Module placement in the syllabus - semester	6th semester
Subject realisation in the academic year	Summer semester <i>(winter / summer)</i>
Initial requirements	The Fundamentals of Computer Graphics <i>(module codes / module names)</i>
Examination	No <i>(yes / no)</i>
Number of ECTS credit points	5

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

TEACHING RESULTS AND THE METHODS OF ASSESSING TEACHING RESULTS



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Module target	The aim of the module is to familiarise students with the methods of designing, implementing, testing, and assessing user interface; another aim is to familiarize students with non-technical factors connected with planning and designing man-computer interactions, in particular with perception possibilities of a man.
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Effect symbol	Teaching results	Teaching methods (I/c/l/p/other)	Reference to subject effects	Reference to effects of a field of study
W_01	A student is able to characterise interface elements, the selected methods of designing them, indicate problems which can occur (together with their solution methods); a student is also able to characterise interface applications.	I	K_W12	T1A_W04
W_02	A student is capable of listing basic input/output models as well as interface styles; a student is also able to distinguish particular prototype models.	I	K_W12	T1A_W04
W_03	A student is able to list and explain the selected analysis and evaluation methods of a user interface.	I	K_W12	T1A_W04
U_01	A student is able to prepare and present (both orally and in a written form) the prepared user interface.	I	K_U03, K_U04	T1A_U03, T1A_U04
U_02	A student can use information tools as well as libraries supporting user interface implementations.	I	K_U18	T1A_U07
U_03	A student can design, implement, test, and evaluate a user interface by adapting it to a particular situation and user.	I	K_U18, K_U21	T1A_U16
K_01	A student is aware of the impact of non-technical aspects on designing man-computer interaction.	I	K_K02	T1A_K02

Teaching contents:

Teaching contents as regards lectures

Lecture number	Teaching contents	Reference to teaching results for a module
1	Basic notion and definitions, the examples of application and related domains.	W_01
2	Methodologies used in interface design, user analysis.	W_01
3	Task analysis.	W_01
4	User interface architecture, design patterns.	W_01
5	The issues connected with perception and its influence on perceiving as well as designing a user interface.	K_01
6	Input/output models used in interface.	W_02
7	Interface styles.	W_02
8	The methods of building prototypes.	W_02
9	The tools and techniques applied in interface prototyping.	W_02
10-11	The methods of evaluating interface, heuristics.	W_03
12-13	The methods of analysing and designing Internet interfaces.	W_03
14-15	The types and applications of interfaces.	W_01

Teaching contents as regards laboratory classes

Laboratory class number	Teaching contents	Reference to teaching results for a module
1	The elements of a user interface.	W_01



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2	Tools supporting building interfaces.	U_02
3	Designing a user interface, problem specification.	U_03
4	User and task analysis.	K_01
5-6	Design patterns in designing Internet interfaces.	W_01
7	Scenarios for a user interface.	U_03
8	Prototype structure.	U_03
9	Prototype testing.	U_03
10-11	Libraries supporting interface design.	U_02
12	A heuristic analysis of a user interface.	W_03
13	Interfaces/computer prototypes testing.	U_03
14-15	Presenting interfaces completed by students.	U_01

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 test on laboratory classes No 1, 5, and 6
W_02	A test on laboratory class No 1
W_03	A test on laboratory class No 12
U_01	Laboratory classes No 14 and 15
U_02	Laboratory classes No 2, 10, and 11
U_03	Laboratory classes No 3,4,7,8,9, and 13
K_01	Laboratory classes No 4, 14, and 15

STUDENT'S INPUT

ECTS credit points		
	Type of student's activity	Student's workload
1	Participation in lectures	30
2	Participation in classes	
3	Participation in laboratories	30
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	65 <i>(sum)</i>
10	Number of ECTS credit points which are allocated for assisted work <i>(1 ECTS credit point=25-30 hours)</i>	2.5
11	Unassisted study of lecture subjects	20
12	Unassisted preparation for classes	
13	Unassisted preparation for tests	
14	Unassisted preparation for laboratories	20
15	Preparing reports	25
16	Preparing for a final laboratory test	
17	Preparing a project or documentation	
18	Preparing for an examination	



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19	Preparing questionnaires	
20	Number of hours of a student's unassisted work	65 <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>	2.5
22	Total number of hours of a student's work	130
23	ECTS credit points per module <i>1 ECTS credit point=25-30 hours</i>	5
24	Work input connected with practical classes <i>Total number of hours connected with practical classes</i>	75
25	Number of ECTS credit points which a student receives for practical classes <i>(1 ECTS credit point=25-30 hours)</i>	3