Course Syllabus

Course from study programme for the cycle: 2022/2023

I.   General Information

Course name	Websites design
Programme	Informatics
Level of studies (BA, BSc, MA, MSc, long-cycle MA)	BSc
Form of studies (full-time, part-time)	full-time
Discipline	Informatics
Language of instruction	English

Course coordinator	Rafał Stęgierski, PhD

Type of class (use only the types mentioned below)	Number of teaching hours	Semester	ECTS Points
lecture			3
tutorial			
classes			
laboratory classes	30	II	
workshops			
seminar			
introductory seminar			
foreign language classes			
practical placement			
field work			
diploma laboratory			
translation classes			
study visit			

Course pre-requisites	

II.   Course Objectives

HTML and CSS
jQuery
Preparation of graphics for websites

III. Course learning outcomes with reference to programme learning outcomes

Symbol	Description of course learning outcome	Reference to programme learning outcome
	KNOWLEDGE	
W_01	The student understands websites design and its place in modern it solutions	K_W01
W_02	Student knew how to properly design web solutions	K_W06
	SKILLS	
U_01	Student could select information sources which build up knowledge about web based systems	K_U02
U_02	Student use technical vocabulary to describe system and its elements	K_U04
U_03	The student can design www websites and web based systems	K_U05
U_04	Student has knowledge how to create project, implement it and test according documentation	K_U17
	SOCIAL COMPETENCIES	
K_01	Student knew her/his limitations and direction of development for becoming better developer or project manager	K_K01
K_02	Know how to manage team	K_K04

IV. Course Content

1. Preparation of the environment
2. HTML 3. Cascading Style Sheets
4. Converting images for HTML / CSS
5. Programming with jQuery

V. Didactic methods used and forms of assessment of learning outcomes

Symbol	Didactic methods *(choose from the list)*	Forms of assessment *(choose from the list)*	Documentation type *(choose from the list)*
	KNOWLEDGE		
W_01	Conversational lecture	Exam	
W_02	Conversational lecture	Exam	
	SKILLS		
U_01	Project-based learning	Preparation of the project	Project rating card
U_02	Project-based learning	Preparation of the project	Project rating card
U_03	Project-based learning	Preparation of the project	Project rating card

U_04	Project-based learning	Preparation of the project	Project rating card
SOCIAL COMPETENCIES			
K_01	Brainstorming/ discussion group	Observation	
K_02	Brainstorming/ discussion group	Observation	

VI. Grading criteria, weighting factors.....

For the grade 3:

- List and briefly describe all HTML 5 tags.
- Provide the structure of a blank HTML 5 document.
- List and characterize the properties of text, colors, margins.
- List and find documents defining standards applicable in the network.
- Create documents using all HTML 5 tags and CSS 3 properties learned.
- Is able to independently prepare basic examples demonstrating advanced issues related to the positioning of elements.
- Can use CSS selectors, HTML5 events, element content and attributes, visual effects.
- Indicate sources of data not covered by copyright.
- Identify and characterize free and commercial hosting services.
- Indicate the specifications, organizations setting service standards and opinion leaders.
- Search the specifications for specific information

For the 4 grade:

- Provide a detailed description of the tags defining the document structure with variants of use and the resulting consequences.
- List and characterize the properties of lists, tables and images.
- Describe methods for checking compliance of documents with standards.
- Indicate sources of information on standards and current trends on the Internet.
- Verify the correctness of the code created by yourself (without the use of tools) at the level of element nesting.
- Can combine base solutions to create larger layout structures.
- Can assess possible legal problems related to his own projects.
- Publish your own work on the selected server.

- Find the latest statistics and specifications on specific trends and issues.

- Interpret found information.

For the 5th grade:

- Provide a detailed description of the general attributes and any other tags.

- List and characterize the properties of the box model, layers and advanced positioning of elements in CSS.

- Describe negative margins and tiling.

- Describe various solutions to speed up the process of writing HTML and CSS code.

VII.   Student workload

Form of activity	Number of hours
Number of contact hours (with the teacher)	60
Number of hours of individual student work	180

VIII.   Literature

Basic literature
Robin Nixon, Learning PHP, MySQL & JavaScript 5e (Learning PHP, MYSQL, Javascript, CSS & HTML5), O'Reilly; 5th ed. edition (8 Jun. 2018) Christopher Murphy , Richard Clark, Beginning HTML5 and CSS3: The Web Evolved (Expert's Voice in Web Development), Apress; 1 edition
Additional literature