

SYLLABUS OF A MODULE

Polish name of a module	Programowanie stron internetowych
English name of a module	Programming of web pages
ISCED classification - Code	0613
ISCED classification - Field of study	<i>Software and applications development and analysis</i>
Languages of instruction	<i>English</i>
Level of qualification:	<i>1 – BSc (EQF 6)</i>
Number of ECTS credit points	<i>5 ECTS</i>
Examination:	<i>A - assignment</i>
Available in semester:	<i>S – Spring only</i>

Number of hours per semester:

Lecture	Tutorials	Laboratory	Seminar	E-learning	Project
30	-	30	-	-	-

MODULE DESCRIPTION

MODULE OBJECTIVES

- O1. Acquainting the student with basic methods of programming of web pages.
- O2. Obtaining by the students the practical skills in construction of web pages.

PRELIMINARY REQUIREMENTS FOR KNOWLEDGE, SKILLS AND OTHER COMPETENCES

1. The basic knowledge in high-level programming languages and techniques used in the Internet.
2. The skills of the practical use of the Internet.
3. The skills of using different sources of information including instructions and technical documentation.
4. The skills of working alone and in the group.

LEARNING OUTCOMES

- LO 1 – The student knows and is able to use basic tools to create and test websites.
- LO 2 – The student knows the basics of HTML and cascading style sheets, and is able to use them to create a user interface running in a web browser.
- LO 3 – The student knows the basics of JavaScript.
- LO 4 – The student is familiar with the basics of Dynamic Object Model and is able to use it to create a dynamic user interface running in a web browser.

LO 5 – The student is able to use JavaScript libraries e.g. JQuery.

LO 6 – The student knows the mode of action of the asynchronous data transfer and is able to program it in the web browser.

MODULE CONTENT

Type of classes – lecture	Number of hours
Lec 1 – Introduction to web programming.	2
Lec 2-3 – HTML.	4
Lec 4-5 – CSS .	4
Lec 6 – JavaScript.	2
Lec 7 – HTML DOM.	2
Lec 8 – Object oriented programming in JavaScript.	2
Lec 9 – jQuery.	2
Lec 10 – Asynchronous JavaScript.	2
Lec 11 – AJAX.	2
Lec 12 – Bootstrap.	2
Lec 13 – W3.CSS.	2
Lec 14-15 – Selected JavaScript frameworks.	4
Sum	30
Type of classes– laboratory.	Number of hours
Lab 1 – Introduction to web programming.	2
Lab 2-3 – HTML.	4
Lab 4-5 – CSS .	4
Lab 6 – JavaScript.	2
Lab 7 – HTML DOM.	2
Lab 8 – Object oriented programming in JavaScript.	2
Lab 9 – jQuery.	2
Lab 10 – Asynchronous JavaScript.	2
Lab 11 – AJAX.	2
Lab 12 – Bootstrap.	2
Lab 13 – W3.CSS.	2
Lab 14-15 – Selected JavaScript frameworks.	4
Sum	30

TEACHING TOOLS

1. - Lectures using multimedia presentations
2. - Laboratory on computer stations
3. - Laboratory guides
4. - Software for programming and testing websites

WAYS OF ASSESSMENT (F – FORMATIVE, S – SUMMATIVE)

F1. - assessment of preparation for laboratory exercises
F2. - assessment of the ability to apply the acquired knowledge while doing the exercises
F3. - evaluation of reports on the implementation of exercises covered by the curriculum
F4. - assessment of activity during classes
S1. - assessment of the ability to solve the problems posed and the manner of presentation obtained results - pass mark *
S2. - assessment of mastery of the teaching material being the subject of the lecture - pass mark

*) in order to receive a credit for the module, the student is obliged to attain a passing grade in all laboratory classes as well as in achievement tests.

STUDENT'S WORKLOAD

L.p.	Forms of activity	Average number of hours required for realization of activity
1. Contact hours with teacher		
1.1	Lectures	30
1.2	Tutorials	-
1.3	Laboratory	30
1.4	Seminar	-
1.5	Project	-
1.6	Examination	-
Total number of contact hours with teacher:		60
2. Student's individual work		
2.1	Preparation for tutorials and tests	15
2.2	Preparation for laboratory exercises, writing reports on laboratories	15
2.3	Preparation of project	-
2.4	Preparation for final lecture assessment	15
2.5	Preparation for examination	-
2.6	Individual study of literature	20
Total number of hours of student's individual work:		65
Overall student's workload:		125
Overall number of ECTS credits for the module		5 ECTS
Number of ECTS points that student receives in classes requiring teacher's supervision:		2,4 ECTS
Number of ECTS credits acquired during practical classes including laboratory exercises and projects:		2,6 ECTS

BASIC AND SUPPLEMENTARY RESOURCE MATERIALS

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| 1. J. Duckett, HTML and CSS: Design and Build Websites, John Wiley & Sons, 2011. |
| 2. B. Frain, Responsive Web Design with HTML5 and CSS: Develop future-proof responsive websites using the latest HTML5 and CSS techniques, Packt Publishing, 2020. |
| 3. J. Duckett, JavaScript and JQuery: Interactive Front-End Web Development, John Wiley & Sons, 2014. |
| 4. J. Lett, Bootstrap Quick Start, BootstrapCreative, 2018. |

MODULE COORDINATOR (NAME, SURNAME, E-MAIL ADDRESS)

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