

<b>Name of the subject in Polish:</b>		<b>Zaawansowane technologie tworzenia serwisów internetowych</b>				<b>Subject code TTS</b>
<b>Name of the subject in English</b>		Advanced website development technologies				
<b>Course of Study:</b>		Technical and Computer Science Education Programme				
<b>Level of studies:</b>		Full-time studies / first-cycle, engineering programme				
<b>Study Profile:</b>		Practical				
<b>Teaching institution:</b>		THE KARKONOSZE STATE APPLIED SCIENCES UNIVERSITY IN JELENIA GÓRA FACULTY OF MEDICAL AND TECHNICAL SCIENCES				
<b>Teacher:</b>		dr inż. Jerzy Januszewicz				
<b>I Types of classes, number of hours</b>						
<b>Semester</b>	<b>Lecture</b>	<b>Practical</b>	<b>Laboratory</b>	<b>Workshop</b>	<b>Other</b>	<b>Total</b>
VI	30		30			60
<b>Form of assessment</b>	graded test		graded test			
<b>Number of ECTS points</b>	2		3			5
<b>II Goal of the subject:</b>						
<b>C1</b>	Presentation of the use of CMS systems for building websites.					
<b>C2</b>	Developing skills in the practical application of the selected CMS system for building a website.					
<b>III. Preliminary requirements in terms of knowledge, skills and other competences:</b>						
It is necessary to have completed a foundation subject „Website Development”.						
<b>IV. Expected Learning Outcomes</b>						
<b>Knowledge</b>						
<b>EK1</b>	The student knows the properties and purpose of CMS content management systems					
<b>EK2</b>	The student knows the service and use of CMS systems					
<b>EK3</b>	The student knows the mechanisms that enable him/her to use CMS systems to build websites					
<b>Skills</b>						
<b>EK4</b>	The student can install the selected CMS system supporting the process of creating a website					
<b>EK5</b>	The student can use the possibilities of CMS to build a website					
<b>Social Competences</b>						
<b>EK6</b>	Student distinguishes between concepts related to internet technologies, allowing for conducting substantive discussions and current issues related to the design and creation of websites using CMS technology.					

<b>V Curriculum</b>		
<b>Form of classes: lecture</b>		<b>Number of hours</b>
<b>Lec1</b>	Basic information about CMS systems	2
<b>Lec 2</b>	Properties of industrial CMS systems	2
<b>Lec 3</b>	Basic configuration of the selected CMS system. Characteristics of the user interface.	2
<b>Lec4</b>	CMS systems settings.	2
<b>Lec5</b>	Security of CMS systems.	2
<b>Lec6</b>	Content creation: articles, pages, editors.	2
<b>Lec7</b>	Creating a menu, contact form, PHP filter.	2
<b>Lec8</b>	Running content type: Blog, Forum, Survey, Comments.	2
<b>Lec9</b>	Using publicly available graphic templates and their implementation in the system.	2
<b>Lec10</b>	User management in the CMS system. Add roles and permissions.	4
<b>Lec11</b>	Expanding the functionality of the CMS system with additional modules	4
<b>Lec12</b>	Starting to operate a website.	2
<b>Lec13</b>	Final test	2
<b>Total number of hours</b>		<b>30</b>
<b>Form of classes: laboratory</b>		<b>Number of hours</b>
<b>Lab1</b>	Introduction to CMS issues. Zajęcia wprowadzające do problematyki CMS.	2
<b>Lab2</b>	Functional analysis of selected CMS systems.	4
<b>Lab3</b>	Installation and configuration of the selected CMS	4
<b>Lab4</b>	Creating menu and basic content on the site. Create your own content type.	2
<b>Lab5</b>	Configuration and use of unusual views of the website.	4
<b>Lab6</b>	Implementation of own CMS overlay	2
<b>Lab7</b>	Building an individual original website based on the selected CMS system - a design task	8
<b>Lab8</b>	Testing the website and debugging	2
<b>Lab9</b>	Final assessment	2
<b>Total number of hours – laboratory</b>		<b>30</b>
<b>VI Didactic tools:</b>		
<b>N1</b>	Multimedia presentations	
<b>N2</b>	Bamer	
<b>N3</b>	Computer lab with programs and access to a computer net .	
<b>VII Ways of assessment (F – formative, P – summative)</b>		

<b>F1</b>	Exercise task lists – sets of relatively easy tasks that can be completed during educational classes, spanning 2 teaching lessons. For the completion of every task list, the teacher gives an F1 grade to the student – depending on the scope, quality, self-sufficiency and pace of work. The basis for completing the task is to present the teacher with the results of the task and provide a report on its implementation.
<b>F2</b>	Project lists of laboratory tasks - sets of more difficult and more complex commands than exercise lists. Their solutions are developed by students partly during the didactic classes, and partly outside of them. The student presents the list of tasks to the teacher during the class and provides a report on its implementation. For solving the task list, the teacher gives the student an F2 grade - a score depending on the scope, quality, independence and timeliness of the work.
<b>F3</b>	A written test to evaluate the knowledge and skills provided during lectures. A positive grade is given, if the student acquired at least 50% of all possible points.
<b>P1</b>	Final grade for laboratory classes is determined based on the total of F1 points obtained by the student from all task lists: F1 (50 %) and F2 (50 %). A positive P1 grade is given to a student who has successfully completed all task lists and obtained at least the passing grade 3,0.
<b>P2</b>	The final grade of the P2 lecture is calculated on the basis of 60% of the F3 grade from the final test and 40% of the final grade P1 from the laboratory. The final grade P2 is positive when both component grades - from the final test and the laboratory - are positive.

#### VIII Student workload

Activity type	Total and average number of hours for the conducted activities
In-class hours with an academic teacher: lecture.	30
Individual study of literature, preparing for the final test in the Lecture topics	25
In-class hours with an academic teacher: lab.	30
Independent installing and configuring of programming environment on a private PC of the student.	5
Preparation of the project and exercise lists	30
<b>TOTAL</b>	<b>120</b>
<b>TOTAL ECTS points for the subject</b>	<b>5</b>

#### IX Main and supplementary literature

##### Main literature

1. Thord Daniel Hedengren, *Podręcznik WordPressa. Smashing Magazine*. Wyd. Hellion, 2013.
2. Agnieszka Ciborowska, Jarosław Lipiński. *WordPress 5 dla początkujących*. Wyd. Helion, 2019.
3. Rick Shreves, Joomla! Biblia. Wyd. Helion, 2013.
4. R.J. Townsend, *Drupal 7. Wprowadzenie*. Wyd. Helion, 2011.

##### Supplementary literature

1. Danowski B., Makaruk M., *Pozycjonowanie i optymalizacja stron WWW. Jak to się robi*. Helion, Gliwice 2007.
2. Zeldman J., *Projektowanie serwisów WWW. Standardy sieciowe*. Helion, Gliwice 2007.

#### X Didactic Methods

<b>M1</b>	A multimedia presentation given by a lecturer using a laptop computer and an overhead projector.
<b>M2</b>	Demonstration with instructions
<b>M3</b>	Practical workshops
<b>M4</b>	Practical tasks
<b>M5</b>	Project work

### XI. Table of connections between subject and course learning outcomes with subject objectives and didactic methods used

Learning Outcomes	Reference to a Learning Outcome defined for the course of study (PEK)	Goals of the subject	Curriculum	Didactic tools	Didactic methods	Learning Outcomes
<b>Knowledge</b>						
<b>EK1</b>	K_W12 K_W18	C1-C2	Lec 1 – Lec12	N1, N2	M1, M2,	F3, P1, P2
<b>EK2</b>	K_W12 K_W18	C1 C2	Lec1 – Lec12	N1, N2	M1, M2,	F3, P1, P2
<b>EK3</b>	K_W12 K_W18	C1 C2	Lec1 – Lec12	N1, N2	M1, M2,	F3, P1, P2
<b>Skills</b>						
<b>EK4</b>	K_U04 K_U13	C1 C2	Lab1 – lab8	N2, N3	M2 - M5	F1, F2, P1,
<b>EK5</b>	K_U04 K_U13	C1 C2	Lab1 – lab8	N2, N3	M2 - M5	F1, F2, P1,

### XII Ways assessment of expected learning outcomes

Learning Outcomes	For 2.0 grade	For 3.0 grade	For 3,5 grade	For 4.0 grade	For 4.5 grade	For 5.0 grade
<b>EK1, EK2, EK3, EK4, EK5, EK6, EK7 (grade P1)</b>	The sum of points obtained from the lists of exercises (F1 assessment) and project (F2 assessment) is less than 50% of the sum of all points obtainable under F1 and F2	The sum of points obtained from the lists of exercises (F1 assessment) and project (F2 assessment) is not less than 50% of the sum of all points obtainable under F1 and F2	The sum of points obtained from the lists of exercises (F1 assessment) and project (F2 assessment) is not less than 61% of the sum of all points obtainable under F1 and F2	The sum of points obtained from the lists of exercises (F1 assessment) and project (F2 assessment) is not less than 72% of the sum of all points obtainable under F1 and F2	The sum of points obtained from the lists of exercises (F1 assessment) and project (F2 assessment) is not less than 83% of the sum of all points obtainable under F1 and F2	The sum of points obtained from the lists of exercises (F1 assessment) and project (F2 assessment) is not less than 94% of the sum of all points obtainable under F1 and F2
<b>EK1, EK2, EK3, EK4, EK6 (grade P2)</b>	The final average (40% of the P1 grade from the laboratory + 60% of the F3 grade from the final test), obtained by the student, has a value below 3.0.	The final average (40% of the P1 grade from the laboratory + 60% of the F3 grade from the final test), obtained by the student, has a value at least 3.0.	The final average (40% of the P1 grade from the laboratory + 60% of the F3 grade from the final test), obtained by the student, has a value at least 3.3.	The final average (40% of the P1 grade from the laboratory + 60% of the F3 grade from the final test), obtained by the student, has a value at least 3.8.	The final average (40% of the P1 grade from the laboratory + 60% of the F3 grade from the final test), obtained by the student, has a value at least 4.3.	The final average (40% of the P1 grade from the laboratory + 60% of the F3 grade from the final test), obtained by the student, has a value at least 4.8.

