

3.6 Language of instruction	Croatian/English																																																		
3.7 Monitoring students' work (enter the number of ECTS credits for each activity so that the total number of ECTS credits is equal to the total ECTS value of the course, 1 ECTS = 30 hours)	2	Class attendance		Seminars		Essay																																													
		Class activity		Project		Report/paper																																													
		Midterm exams	3	Practical task		Continuous knowledge check																																													
		Written exam		Experimental work																																															
		Oral exam		Research																																															
3.8 Assessment and evaluation of students' work during classes and at the final exam	<table border="1"> <thead> <tr> <th>Activity specification</th> <th>Percent %</th> <th>Points</th> </tr> </thead> <tbody> <tr> <td colspan="3" style="text-align: center;">Assessment during instruction</td> </tr> <tr> <td>Attendance</td> <td>5%</td> <td>5</td> </tr> <tr> <td>Class activity</td> <td>20%</td> <td>20</td> </tr> <tr> <td>Seminar/ project/ essay</td> <td>75%</td> <td>75</td> </tr> <tr> <td>Total:</td> <td>100%</td> <td>100</td> </tr> </tbody> </table>						Activity specification	Percent %	Points	Assessment during instruction			Attendance	5%	5	Class activity	20%	20	Seminar/ project/ essay	75%	75	Total:	100%	100																											
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3.10 Specific features related with taking the course	<p>The student directly takes the exam where he presents and defends the project assignment. A student cannot access the exam without a project assignment. The project is prepared according to the instructions published on the Merlin system and are submitted by placing them on the Merlin. The practical work is submitted at least 3 days before the exam deadline. During the exam, the achieved outcomes are verbally checked.</p> <p>Students who did not collect points for the assignments in the exercises create additional assignments to make up the points according to the outcomes in agreement with the teacher.</p> <p>The final grade is obtained on the exam and is the sum of the points achieved during the course and the points obtained for fulfilling the course outcomes, which are assessed by the completed project assignment and verbal examination of independent work.</p>																																																		
3.11 Students obligations	Full-time students are required to attend at least 70% of the total number of hours of lectures and exercises in order to exercise the right to take the exam.																																																		

	<p>Part-time students are required to attend at least 30% of the total number of hours of lectures and exercises in order to exercise the right to take the exam. If the student has not fulfilled all the obligations set by the course, he is obliged to attend the lectures again and meet the conditions for taking the exam.</p> <p>Attendance can be offset by online tuition, organised webinars and added assignments given by teachers. One lesson lasts 45 minutes, and several hours form a teaching unit. Absence from one teaching unit is counted as one absence. Delays and apologies are recorded separately. In that case, if the student missed more than 50% of classes, and has a justifiable reason/apology, the request should be submitted to the Department Council, which then decides on the justification of student absences with the obligatory opinion of the course leader.</p>	
3.12 Written assignments		
3.13 Required reading	1.	Sanja Brekalo, Uvod u PHP programiranje, Međimursko veleučilište u Čakovcu, 2018
	2.	
3.14 Additional reading	1.	Kevin Tatroe, Peter MacIntyre, Programming PHP: Creating Dynamic Web Pages 4th Edition, O'Reilly, 2020
	2.	
4 ADDITIONAL COURSE INFORMATION		
4.1 Quality control	The quality of the program, teaching process, teaching skills and level of mastery of the material will be established by conducting a written evaluation based on questionnaires, and in other standardised ways and in accordance with the by-laws of the Polytechnic of Međimurje in Čakovec.	
4.2 Contact the teacher	Students can contact the teacher during the office hours and during classes, while for short questions and explanations they can contact him/her any day during working hours by coming in person or by landline. It is also possible to ask questions by e-mail, which will be answered in 48 hours at the latest. It is desirable for students to come as often as possible for any possible questions during the teacher's office hours.	
4.3 Information about the course	It is the obligation of each student to be regularly informed about the course. All notifications about the classes or possible postponement of classes will be posted on the bulletin board and on the website of the Polytechnic at least 24 hours in advance.	
4.4 Course contribution to the study program	<p>IS7 Develop programming code in several programming languages using modern methods and tools</p> <p>IS11 Apply database basics by database creation, modeling, and administration</p> <p>IS13 Develop applications using an object-oriented paradigm in solving program tasks</p> <p>IS17 Select the appropriate programming language and technology when solving programming tasks</p> <p>IS16 Develop web and mobile projects, applying advanced technologies and connecting to databases using modern methods and tools</p>	

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5. ANALYSIS OF COURSE TOPICS (the number of hours is equal to the number of lectures and exercises of the course)

LECTURES				
Hours	Topic and description	Method	Learning outcomes	Course outcome
		<ul style="list-style-type: none"> • Direct teaching (lecture, instruction, pp presentation) • Discovery learning (individual, lead, discussion) • Group learning • Case study • Field classes... 		
1.-2.	Basic concepts related to PHP, course introduction, basic language properties	Lecture, pp presentation	Set up a development environment	I1
3.-4.	Embedding code on web pages, syntax, comments, printing in a web browser	Lecture, pp presentation	Create simple PHP code combined with HTML code	I1
5.-6.	Functions and Arrays	Lecture, pp presentation, discussion	Use functions and arrays when solving programming tasks	I1
7.-8.	Strings	Lecture, pp presentation, discussion	Apply string management functions	I1
9.-10.	Files	Lecture, pp presentation, discussion	Apply file management	I1
11.-12.	OOP PHP	Lecture, pp presentation, discussion	Apply object-oriented programming syntax in PHP	I1
13.-14.	Forms	Lecture, pp presentation, discussion	Create forms in HTML and link to PHP	I2
15.-16.	MySQL	Lecture, pp presentation, discussion	Set up a database and connect to PHP	I4
17.-18.	Sessions	Lecture, pp presentation, discussion	Application of sessions in the development of CMS systems	I3
19.-20.	Security	Lecture, pp presentation, discussion	Check the data before writing to the database	I3, I4
21.-22.	AJAX	Lecture, pp	Use AJAX on	I5

		presentation, discussion	dynamic web pages	
23.-24.	Uploads	Lecture, pp presentation, discussion	Upload images to a server, and record to a database	15
25.-26.	Image processing	Lecture, pp presentation, discussion	Process images when uploading to server	15
27.-28.	Connecting and structuring CMS systems	Lecture, pp presentation, discussion	Connect the parts of the application into a whole	15
29.-30.	Making the final assignment	Lecture, pp presentation, discussion	Connect the parts of the application into a whole	15
EXERCISES/ SEMINARS				
Hours	Topic and description	Method <ul style="list-style-type: none"> • Direct teaching (lecture, instruction, pp presentation) • Discovery learning (individual, lead, discussion) • Group learning • Case study • Field classes... 	Learning outcomes	Course outcome
1.-2.	Application of PHP programming language	Independent and guided assignments	Apply the basic syntax of the PHP programming language	I1
3.-4.	Embedding code on web pages, syntax, comments, printing in a web browser	Independent and guided assignments	Apply program flow control	I1
5.-6.	Functions and Arrays	Independent and guided assignments	Use functions and arrays when solving programming tasks	I1
7.-8.	Strings	Independent and guided assignments	Independently solve tasks related to word processing	I1
9.-10.	Files	Independent and guided assignments	Write and read records on the file system	I1
11.-12.	OOP PHP	Independent and guided assignments	Apply object-oriented programming syntax in PHP	I1
13.-14.	Forms	Independent and guided assignments	Create forms in HTML and link to PHP	I2
15.-16.	MySQL	Independent and guided assignments	Set up a database and connect to PHP	I4
17.-18.	Sessions	Independent and guided assignments	Apply sessions in development of CMS systems	I3
19.-20.	Security	Independent and guided assignments	Check the data before writing to	I3, I4

			the database	
21.-22.	AJAX	Independent and guided assignments	Use AJAX on dynamic web pages	15
23.-24.	Uploads	Independent and guided assignments	Upload images to a server, and record them to a database	15
25.-26.	Image processing	Independent and guided assignments	Process images when uploading to server	15
27.-28.	Connecting and structuring CMS systems	Independent and guided assignments	Connect the parts of the application into a whole	15
29.-30.	Making the final assignment	Independent and guided assignments	Connect the parts of the application into a whole	15