COURSE TITLE	Web programming					
Course code	SRC126	Year of study	2.			
Lecturer(s)	Marina Rodić, senior lecturer	ECTS (Number of credits allocated)	5			
Associates		Total lesson hours per semester	Lecture	Seminar	Practical	Laboratory
			30	15		30
Course status	Mandatory	Percentage share of e-learning	50%			

COURSE DESCRIPTION	
Course Objectives	Mastering basic concepts and technologies in web development.
Course enrolment requirements and entry competencies required for the course	
Learning outcomes On successful completion of this course, student should be able to:	1. define basic technologies used for web application programming: sockets, HTTP protocol, HTML, JavaScript, web servers, CGI scripts, MVC architectural pattern, MVC framework 2. demonstrate advantages and disadvantages of specific technologies and their usage 3. apply server programming for implementation of basic web applications 4. determine and demonstrate bugs in a program, recognise appropriate technologies for implementation of different features 5. recommend new solutions to programing problems or improve existing code using learned methods 6. evaluate applications and background technologies used for their implementation
Course content	Introduction: sockets, web applications and web servers, HTML, HTTP protocol, server-side and client-side programming. Additional technologies: databases and SQL language, JavaScript, Python. Dynamic rendering of web pages. CGI scripts. MVC arhitectural pattern. MVC framework. Working with databases. AJAX technology. Security in web applications.

Types of teaching:		
	☒ lecture	☒ self-study
	☒ seminars and workshop	☐ multimedia
	☒ practical	☒ laboratory
	☒ combined e-learning	☐ mentoring work
	☐ field research	☐ (others)

Student obligations	Attending classes, seminar workshops, exams.					
Monitoring student work (enter the share in ECTS	Class attendance	2,5	Research		Practical work	
	Experimental work		Report		(others)	

credits for each activity so that the total number of ECTS credits corresponds to the credit value of the course):	Essay		Seminar	0,5	(others)	
	Self-study	0,5	Workshop		(others)	
	Project	1,4	Office hours, mid-term exams and final exam	0,1	(others)	

Assessment and evaluation of student work during classes and at the final exam

CONTINUOUS ASSESSMENT		
Continuous testing indicators	Performance A_i (%)	Grade ratio k_i (%)
Project	50-100	100
First mid-term exam	50-100	0
Second mid-term exam	50-100	0

FINAL ASSESSMENT		
Indicators checks	Performance A_i (%)	Grade ratio k_i (%)
Final exam	50 - 100	30
Previous activities	50 - 100	0
Project	50 - 100	70
Indicators checks	Performance A_i (%)	Grade ratio k_i (%)
Final exam	50 - 100	0
Previous activities	50 - 100	0
Project	50 - 100	100

The grade (in percentages) is formed on the basis of all indicators that describe the level of student activities according to the relation:

$$Grade\,(\%) = \sum_{i=1}^{N} k_i A_i$$

k_i - weighting factor for each activity,
A_i - success in percentage achieved for a particular activity,
N - total number of activities.

PERFORMANCE AND GRADE

<table>
<tr><td></td><td>
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<tr><th>Percentage</th><th>Criteria</th><th>Grade</th></tr>
<tr><td>50% - 61%</td><td>basic criteria met</td><td>sufficient (2)</td></tr>
<tr><td>62% - 74%</td><td>average performance with some errors</td><td>good (3)</td></tr>
<tr><td>75% - 87%</td><td>above average performance with minor errors</td><td>very good (4)</td></tr>
<tr><td>88% - 100%</td><td>outstanding performance</td><td>outstanding (5)</td></tr>
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<tr><td>Required reading</td><td>1. Lecture materials and examples.</td></tr>
<tr><td>Optional reading</td><td>1. Teaching materials for students (scripts, exercise collections, examples of solved exercises), teaching record, detailed course syllabus, application of e-learning, current information and all other data are available by MOODLE system to all students.</td></tr>
<tr><td>Quality monitoring to ensure the acquisition of established learning outcomes</td><td>• Records of class attendance and success in performing student obligations
• Updating detailed course curricula
• Supervision of teaching activities
• Continuous quality control of all parameters of the teaching process in accordance with the Action Plans
• Semester-based student survey in accordance with the "Ordinance on the procedure of student evaluation of teaching work at the University of Split" (UNIST, Centre for Quality Improvement).</td></tr>
<tr><td>Other information</td><td></td></tr>
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