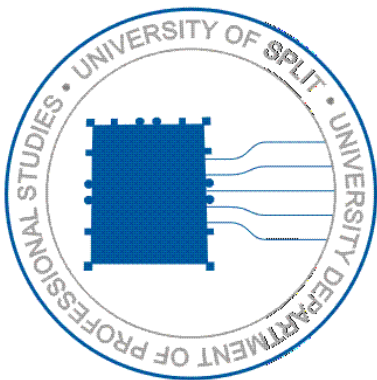


Course syllabus

Programming on the Internet



COURSE DETAILS

<i>Type of study programme</i>	Undergraduate professional study programme- 180 ECTS	
<i>Study programme</i>	INFORMATION TECHNOLOGIES	
<i>Course title</i>	Programming on the Internet	
<i>Course code</i>	SIT126	
<i>ECTS (Number of credits allocated)</i>	6	
<i>Course status</i>	Optional	
<i>Year of study</i>	Third	
<i>Course Web site</i>	https://moodle.oss.unist.hr/course/category.php?id=21	
<i>Total lesson hours per semester</i>	Lectures	30
	Seminar	15
	Laboratory exercises & practical demonstration	30
<i>Prerequisite(s)</i>	None	
<i>Lecturer(s)</i>	Department of Information technologies: Marina Rodić, lecturer	

COURSE DESCRIPTION

<i>Course Objectives:</i>	<ul style="list-style-type: none"> • introduction to basic technologies for Internet applications programming
<i>Learning outcomes</i> <i>On successful completion of this course, student should be able to:</i>	<ol style="list-style-type: none"> 1. define basic technologies used for Internet (web) applications programming: sockets, HTTP protocol, HTML, JavaScript, web servers, CGI scripts, PHP scripts, Symfony framework, 2. demonstrate advantages and disadvantages of specific technologies and their use, 3. apply server programming for implementation of simpler web applications 4. determine and demonstrate bugs in program, recognise needed technologies for implementation of different functionalities 5. recommend new solutions for programing problems or improve existing code using learned methods, 6. evaluate applications and background technologies used for their implementation.
<i>Course content</i>	<p>Introduction: sockets, web applications and web servers, HTML, HTTP protocol, server-side and client-side programming, three-tier architecture. Additional technologies: data bases and SQL language, JavaScript, VB.Net. Dynamic generation of web pages. CGI scripts. PHP language. LAMP framework. Symfony framework. Working with databases. AJAX technology. Security in web applications.</p>

CONSTRUCTIVE ALIGNMENT – Learning outcomes, teaching and assessment methods

Alignment of students activities with learning outcomes		
Activity	Student workload ECTS credits	Learning outcomes
<i>Lectures</i>	30 hours / 1 ECTS	1,2,4,5,6
<i>Seminar</i>	15 hours / 0,5 ECTS	3, 4, 5
<i>Laboratory work</i>	30 hours / 1 ECTS	3,4
<i>Self-study</i>	90 hours / 3 ECTS	1,2,3,4,5,6
<i>Office hours and final exam</i>	15 hours / 0,5 ECTS	1,2,4,5,6
TOTAL:	150 hours / 6 ECTS	1,2,3,4,5,6

CONTINUOUS ASSESSMENT		
Continuous testing indicators	Performance A_i (%)	Grade ratio k_i (%)
<i>Class attendance and participation</i>	70 - 100	10
<i>Laboratory work</i>	100	10

FINAL ASSESSMENT		
Testing indicators – final exam (first and second exam term)	Performance A_i (%)	Grade ratio k_i (%)
<i>Practical exam (written)</i>	50 - 100	40
<i>Theoretical exam (written and/or oral)</i>	50 - 100	50
<i>Previous activities (include all continuous testing indicators)</i>	50 - 100	10
Testing indicators – makeup exam (third and fourth exam term)	Performance A_i (%)	Grade ratio k_i (%)
<i>Practical exam (written)</i>	50 - 100	50
<i>Theoretical exam (written and/or oral)</i>	50 - 100	50

PERFORMANCE AND GRADE

Percentage	Criteria	Grade
od 50% do 61%	<i>basic criteria met</i>	sufficient (2)
od 62% do 74%	<i>average performance with some errors</i>	good (3)
od 75% do 87%	<i>above average performance with minor errors</i>	very good (4)
od 88% do 100%	<i>outstanding performance</i>	excellent (5)