

<b>Study programmes:</b> Bachelor studies - Informatics				
<b>Course name:</b> R130 - Introduction to web and internet technologies				
<b>Lecturers:</b> Filip Marić and other teachers from the Department of Computer science				
<b>Status:</b> Compulsory				
<b>ECTS:</b> 6				
<b>Attendance prerequisites:</b> P100				
<b>Course aims:</b> Introduction to basic notions of networking, internet and web. Learning basic web-technologies and gaining knowledge needed to create dynamic interactive web-presentations.				
<b>Course outcome:</b> After the course, the student has master the basic techniques of developing dynamic interactive web-applications.				
<b>Course content:</b>				
<ul style="list-style-type: none"> <li>- Basics of networking and internet.</li> <li>- Internet services and protocols (HTTP, POP3, IMAP, SMTP, FTP).</li> <li>- Meta markup languages SGML and XML.</li> <li>- Markup of web-page content - HTML.</li> <li>- Markup of web-page style - CSS.</li> <li>- Interactive web presentations, DOM, client-side scripting, introduction to JavaScript and some libraries (e.g., JQuery).</li> <li>- Web-servers, Apache - installation and configuration.</li> <li>- Dynamic web-applications, server-side scripting, introduction to PHP.</li> <li>- Introduction to data basis in the web environment. Introduction to DBMS MySQL. Accessing MySQL from PHP.</li> <li>- Asynchronous web-applications, AJAX.</li> <li>- Basics of internet security. Search engine optimization (SEO).</li> </ul>				
<b>Literature:</b>				
<ol style="list-style-type: none"> <li>1. Филип Марић: Увод у веб и интернет технологије, е-скрипта, Математички факултет, 2013.</li> <li>2. Josh Hill i James A. Brannan: Брилијантно HTML5 и CSS3, СЕТ, 2011.</li> <li>3. David Flanagan: Javascript: свеобухватни водич, Микро књига, 2008.</li> <li>4. Luke Welling, Laura Thomson: PHP и MySQL: развој апликација за веб, Микро књига, 2009.</li> </ol> (наставник може изабрати другу одговарајућу актуелну литературу)				
<b>Number of hours:</b> 5	<b>Lectures:</b> 3	<b>Tutorials:</b> 2	<b>Laboratory:</b> -	<b>Research:</b> -
<b>Teaching and learning methods:</b> Frontal, group, individual and practical.				
<b>Assessment (maximal 100 points)</b>				
<b>Course assignments</b>	<b>points</b>	<b>Final exam</b>	<b>points</b>	
Lectures	10	Written exam	-	
Exercises / Tutorials	-	Oral exam	-	
Colloquia	20	Written-oral exam	50	
Essay / Project	20			