

Course unit title:	Advanced Web Applications
Course unit code:	CSW361
Type of course unit: (Compulsory/optional)	Optional
Level of course unit: (First, second or third cycle)	Bachelor (1st cycle)
Year of study:	4
Semester when the unit is delivered:	7 or 8
Number of ECTS credits allocated:	6
Name of lecturer(s):	TBA
Learning outcomes of the course unit:	
<p>Upon successful completion of this course students should be able to:</p> <ul style="list-style-type: none"> • Define and discuss major concepts, tools, techniques, and methods of web applications and web services. • Identify and utilize best practices for web application development and management. • Compare and contrast proprietary and open source web technologies and applications. • Analyze emerging web technologies, applications, and business models. • Plan, design, and develop a modern web application solution in a specific context. 	
Mode of delivery:	Face-to-face
Prerequisites and co-requisites:	CSW251
Recommended optional program components:	None
Course contents:	
<p>Objective: The objective of this course is to help students gain familiarity with advanced modern web applications and utilize appropriate web tools for the development of web application which offer rich user experience</p> <p>Description:</p> <p>Introduction to advanced web applications: Web 2.0 applications and related features. The culture of participation, web platforms for running applications, database-backed web</p>	

applications, mobile web applications, rich user experience.

Structure of advanced web applications: Blogs and web-based blogging applications. Configuring blogs. Enriching blogs with multimedia. Web-based wikis.

Syndicated web contents: Web feeds. Features & formats of web feeds. Managing web feeds. Incorporating web feeds in applications. Features and anatomy of podcasts. Publishing podcasts

Organizing information on advanced web applications: Introduction to tagging as a means of organizing information. Sharing and tagging information. Social bookmarking.

Social networking web applications: Basic concepts. Common features of social networking applications. Connecting people with special interests. Business uses of social networking. Corporate social networks.

Cloud web applications: Infrastructure as a service. Platform as a service. Software development in the cloud. Software as a service. Distributed web applications, structure and APIs. Linking data between web applications.

HTML5: The HTML5 tag structure. Building a web site using HTML5 blocking elements. CSS3 basic concepts. Applying CCS3 to web design. Rich media HTML5 foundation. The HTML5 JavaScript model. Working with Ajax libraries.

Recent developments and contemporary issues pertaining to the subject-matter of the course.

<p>Recommended or required reading:</p>	<p>Shelly, G.B. & Frydenberg, M.. Web 2.0: Concepts and Applications. Course Technology, 2010</p> <p>David, M. HTML5: Designing Rich Internet Applications (Visualizing the Web), Focal Press, 2010</p> <p>Ducket., J. HTML and CSS: Design and Build Websites. Wiley. 2011</p> <p>Frain, B.. Responsive Web Design with HTML5 and CSS3, Packt Publishing, 2012</p>
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<p>Planned learning activities and teaching methods:</p>	<table> <tr> <td data-bbox="565 1690 1023 1785">Class Instruction:</td> <td data-bbox="1023 1690 1469 1785" style="text-align: center;">42 Hours</td> </tr> <tr> <td data-bbox="565 1785 1023 1885">Consultation:</td> <td data-bbox="1023 1785 1469 1885" style="text-align: center;">20 Hours</td> </tr> </table>	Class Instruction:	42 Hours	Consultation:	20 Hours
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Assessment methods and criteria:	<table border="1"> <tr> <td data-bbox="587 233 1019 268">Examinations</td> <td data-bbox="1024 233 1261 268">50%</td> </tr> <tr> <td data-bbox="587 268 1019 304">Project / Class Participation</td> <td data-bbox="1024 268 1261 304">50%</td> </tr> <tr> <td></td> <td data-bbox="1024 304 1261 340">100%</td> </tr> </table>	Examinations	50%	Project / Class Participation	50%		100%
Examinations	50%						
Project / Class Participation	50%						
	100%						
Language of instruction:	English						
Work placement(s):	No						
Place of Teaching:	Regular Classroom European University Cyprus, Nicosia IT Laboratory European University Cyprus, Nicosia						