

Course unit title:	Web Technologies
Course unit code:	CSC133
Type of course unit: (Compulsory/optional)	Compulsory
Level of course unit: (First, second or third cycle)	Bachelor (1st cycle)
Year of study:	1
Semester when the unit is delivered:	2
Number of ECTS credits allocated:	5
Name of lecturer(s):	TBA
Learning outcomes of the course unit:	
<p>Upon successful completion of the course students should be able to:</p> <ul style="list-style-type: none"> • Recognize the underlying technologies of the Internet as a platform for Web systems • Recognize the contemporary architectural styles of web systems • Define how web systems can be deployed to gain strategic and tactical advantages in business organizations • Recognize and apply the process of designing web systems • Experiment with web usability and evaluation for quality web systems • Define the basic concepts of service oriented architecture and its applications • Define the importance of machine-understandable information: Semantic Web 	
Mode of Delivery:	Face- to- face
Prerequisites and co-requisites:	None
Recommended optional program components:	None
Course Contents:	
Objective:	
<p>Provide students with an overview of contemporary web infrastructure, protocols and implementation technologies. Illustrate the advantages and disadvantages of different web architectures. Realize the importance of web design through hands-on sessions. Elaborate on the need for usable web systems. Appreciate the importance of semantics and distribution of services in modern web applications.</p>	

Description:

Introduction

Introduction to the organization of the internet and the client server architecture.

Internet protocols

Explain contemporary internet protocols

Web design

Illustrate the core activities in a typical website design process

Usability and evaluation

Introduction to web usability and evaluation techniques.

SOA

Introduction to service oriented architecture and its application in the business domain

Security

Introduce web security and associated technologies.

Semantics

Explain the need and technology for extracting meaning from web content through the Semantic web

Business performance

Appreciate how the internet can be used to leverage business performance and enhance competitive advantage.

**Recommended
or
required reading :**

Moseley Ralph, DEVELOPING WEB APPLICATIONS
Wiley

Douglas Van Duyne et al, THE DESIGN OF SITES,
Prentice Hall

Michael Papazoglou, WEB SERVICES: PRINCIPLES AND
TECHNOLOGY, Pearson

**Planned learning activities
and teaching methods:**

Class Instruction:

42 Hours

Consultation:

15 Hours

Assessment methods and criteria:	<table border="1"> <tr> <td data-bbox="618 254 1024 289">Examinations</td> <td data-bbox="1024 254 1265 289">70%</td> </tr> <tr> <td data-bbox="618 289 1024 325">Assignments</td> <td data-bbox="1024 289 1265 325">30%</td> </tr> <tr> <td data-bbox="618 325 1024 361"></td> <td data-bbox="1024 325 1265 361">100%</td> </tr> </table>	Examinations	70%	Assignments	30%		100%
Examinations	70%						
Assignments	30%						
	100%						
Language of instruction:	English						
Work placement(s):	No						
Place of Teaching:	Computer Laboratory European University Cyprus, Nicosia						