MODULE SYLLABUS

INTRODUCTION TO WEB TECHNOLOGIES

MODULE CODE	CCS1210
MODULE TITLE	Introduction to Web Technologies
PROGRAMME	B.Sc.
DEPARTMENT	Computer Science
CREDITS	10
STAGE OF STUDY	1st
SEMESTER/SESSION	Fall / 2021
RE-ASSESSABLE	Yes
COMPENSATABLE	Yes
LOCATION	Thessaloniki
STAFF	Konstantinos Dimopoulos
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ACCREDITATION	The programme is accredited by the British Computer Society (BCS)

DESCRIPTION
The aim of this unit is to introduce to students contemporary technologies used for website development, and to help them gain the skills needed in developing websites and programming software

AIMS	
This module aims to:	
A1	Introduce to the students contemporary technologies used for website development
A2	Clarify how these technologies work together in order to create proper websites
A3	Learn how to collaborate and work in a group

LEARNING OUTCOMES		
By the end of the module, a student will be able to:		Link to aims
LO1	Demonstrate how the WWW works, and what is the function of each technology used in web development	A1,A2
LO2	Compare and contrast the different technologies used for website development.	A2
LO3	Plan the structure of a website and organise the information in it	A1
LO4	Design the look of a website using appropriate technologies	A1
LO5	Work collaboratively in a group	A3

HOW DOES THIS MODULE FIT INTO THE CURRICULUM?
This is an introductory module that sets the stage on web development technologies. It lays the foundations that will be used at the HCI module and the Web programming module which take place on the next stage.

TEACHING & LEARNING METHODS	Total Contact Hours:32
The following teaching & learning methods will be employed: 1 hour lecture each week followed by a 2 hour lab session for 10 weeks. Students are expected to revise the material with assignments from Khan academy.	

ASSESSMENT METHODS				
Type #	Students will be assessed by:	Submission Week	% contribution	LOs assessed
C1	Project: Class preparation at Khan academy	every week	10%	LO1-LO4
C2	Project: Build a website on a specific subject	11	50%	LO3-LO5

C4	Presentation: Present the website and your personal contribution	12	10%	LO2, LO5
E1	Assessed lab	exams	30%	LO1-LO4

FEEDBACK PROVISION

The following methods will be used to provide feedback to students:

- Formative feedback: Separate meetings with each group to discuss their progress on a bi-weekly basis
- Summative feedback: After the final presentation grades sent by email

The feedback handbook found at https://goo.gl/Zy2roA aims to give you a better understanding of feedback; what it is for and how to use it.

ACCESS TO MODULE MATERIAL (Notes, handouts, announcements etc.)

All material used in this module's classes are available in electronic form through Google Classroom with class code **qce6cwv**

RECOMMENDED TEXTBOOK(S)

N/A

LIST OF REFERENCES / ADDITIONAL RECOMMENDED READING

- W3Schools, "W3Schools Online Web Tutorials", http://www.w3schools.com/default.asp, last visited September 2021
- Khan Academy, https://www.khanacademy.org, last visited September 2021

OUTLINE

WEEK/ SESSION	
#1	Course introduction, HTML framework, text emphasis, lists, images
#2	CSS framework, internal CSS, selecting by tag, id and class, links, internal links
#3	tables, comments, font-family, font-size, font shorthand, text properties, inheritance
#4	inline and external stylesheets, grouping, width-height-overflow, box model, floating, planning
#5	multiple classes, descendant selectors, pseudo-classes, specificity, website design, HTML validation
#6	**Consolidation Week**
#7	JS embeding, DOM, debugging, finding elements by ID, multiple DOM by tag/class name or CSS selector
#8	changing attributes, styles, classes, innerHTML creating elements from scratch events, listeners, DOM event types, properties, FORMS
#9	window object, setInterval, requestAnimationFrame, CSS animations
#10	Introduction to frameworks for web development (Bootstrap)
#11	JS libraries and how to use them
#12	**Reading Week**

EMPLOYABILITY PROFILE

This module contributes to your employability profile by enhancing the following Graduate Attributes: