

## H8WBD: Web Design and Client Side Scripting

<b>Module Code:</b>	H8WBD
<b>Long Title</b>	Web Design and Client Side Scripting <b>APPROVED</b>
<b>Title</b>	Web Design and Client Side Scripting
<b>Module Level:</b>	LEVEL 8
<b>EQF Level:</b>	6
<b>EHEA Level:</b>	First Cycle
<b>Credits:</b>	5
<b>Module Coordinator:</b>	Sam Cogan
<b>Module Author:</b>	Adriana Chis
<b>Departments:</b>	School of Computing
<b>Specifications of the qualifications and experience required of staff</b>	Master's degree in computing or cognate discipline.
<b>Learning Outcomes</b>	
<i>On successful completion of this module the learner will be able to:</i>	
<b>#</b>	<b>Learning Outcome Description</b>
LO1	Develop client side web applications in line with current and legacy web standards.
LO2	Utilise a web scripting language to manipulate and visualise data
LO3	Select and implement appropriate client side frameworks and toolkits
LO4	Select and implement appropriate deployment methodologies on a given project
LO5	Optimise written code in terms of both speed and for search engines
<b>Dependencies</b>	
<b>Module Recommendations</b>	
No recommendations listed	
<b>Co-requisite Modules</b>	
No Co-requisite modules listed	
<b>Entry requirements</b>	See section 4.2 Entry procedures and criteria for the programme including procedures recognition of prior learning

# H8WBD: Web Design and Client Side Scripting

Module Content & Assessment	
<b>Indicative Content</b>	
<b>What is Client Side Scripting</b> Content/Style BehaviourHTML CSS JSServer vs client Key concerns History & future Cyclical design model	
<b>Document Structure</b> DOM Cross browser compatibility Separation of concerns Classes & IDs	
<b>CSS</b> The cascade Inheritance Overrides CSS resets Background images	
<b>HTML Elements</b> Images Links Lists Forms	
<b>Pathing and Deployment</b> Relative vs absolute paths Domain name and hosting Deployment methodologies	
<b>Layout 1</b> Positioning Text layout CSS floats	
<b>Layout 2</b> Responsive design Adaptive layout CSS media queries Layout frameworks	
<b>JavaScript 1</b> What is behaviour Examples Variables Operators Default functions Output	
<b>JavaScript 2</b> DOM manipulation Inspector Functions If statements	
<b>Javascript 3</b> Loops Arrays Testing	
<b>Webpage Optimisation</b> Testing Image compression Redirects/http requests Caching Minification Content delivery	
<b>Search Engine Optimisation</b> Testing Analytics Meta tags Title tags Sitemaps	
<b>Assessment Breakdown</b>	
Coursework	100.00%
<b>Assessments</b>	
<b>Full Time</b>	
<b>Coursework</b>	
<b>Assessment Type:</b>	Continuous Assessment
<b>Assessment Date:</b>	n/a
<b>Non-Marked:</b>	No
<b>Assessment Description:</b>	Flipped Classroom Assessment Students will be introduced to threshold concepts week to week by the use of videos and other external content. The students will watch these videos outside of classtime, and be assessed by the use of small, closed book quizzes in class time
<b>Assessment Type:</b>	Project
<b>Assessment Date:</b>	n/a
<b>Non-Marked:</b>	No
<b>Assessment Description:</b>	Students will be required to complete a group based project and deploy a website that utilises a number of web frameworks
No End of Module Assessment	
No Workplace Assessment	
<b>Reassessment Requirement</b>	
<b>Coursework Only</b> <i>This module is reassessed solely on the basis of re-submitted coursework. There is no repeat written examination.</i>	

## H8WBD: Web Design and Client Side Scripting

<b>Module Workload</b>				
<b>Module Target Workload Hours 0 Hours</b>				
<b>Workload: Full Time</b>				
<i>Workload Type</i>	<i>Workload Description</i>	<i>Hours</i>	<i>Frequency</i>	<i>Average Weekly Learner Workload</i>
Lecture	No Description	24	Per Semester	2.00
Tutorial	No Description	12	Per Semester	1.00
Independent Learning Time	No Description	89	Per Semester	7.42
Total Weekly Contact Hours				3.00
<b>Workload: Part Time</b>				
<i>Workload Type</i>	<i>Workload Description</i>	<i>Hours</i>	<i>Frequency</i>	<i>Average Weekly Learner Workload</i>
Lecture	No Description	24	Per Semester	2.00
Tutorial	No Description	12	Per Semester	1.00
Independent Learning Time	No Description	72	Per Semester	6.00
Total Weekly Contact Hours				3.00

## Module Resources

### *Recommended Book Resources*

Jon Duckett. (2014), *Web Design with HTML, CSS, JavaScript and jQuery Set*, Wiley, p.1152, [ISBN: 1119038634].

Mark Myers. (2014), *A Smarter Way to Learn JavaScript*, CreateSpace, p.293, [ISBN: 1497408180].

*This module does not have any article/paper resources*

*This module does not have any other resources*

**Discussion Note:**