

<b>Full Title:</b>	Web Development
<b>Language of Instruction:</b>	English
<b>Module Code:</b>	INET C8018
<b>Credits:</b>	5
<b>Valid From:</b>	Semester 2 - 2016/17 ( February 2017 )
<b>Module Delivered in</b>	<a href="#">1 programme(s)</a>
<b>Module Description:</b>	The aim of this module is to give students an insight into developing rich and dynamic webpages.
<b>Learning Outcomes:</b>	
<i>On successful completion of this module the learner should be able to</i>	
<ol style="list-style-type: none"> <li>1. Create rich webpages using advanced HTML elements and CSS styles.</li> <li>2. Design and build client-side scripts.</li> <li>3. Create dynamic webpages integrating client-side scripting and scripting libraries.</li> </ol>	

## Module Content & Assessment

### Indicative Content

#### Client-Side Rich Webpages:

Tables and HTML Local Storage; browser compatibilities; inserting Audio and Video resources; integrating Widgets (e.g. Twitter, Facebook, Google Earth); the Box Model (border, padding, margins); positioning; advanced text styles; CSS transitions and animations.

#### Client-Side Scripting:

Client-Side Scripting - JavaScript; basic syntax, variables, operators, branching; arrays and loops; built-in Date, String and Math functions; writing and using functions; (Event Programming; introduction to the DOM (e.g. pull-down menus); regular expressions; introduction to jQuery; introduction to AJAX);

### Assessment Breakdown

Course Work

%

100.00%

## Full Time

### Course Work

Assessment Type	Assessment Description	Outcome addressed	% of total	Marks Out Of	Pass Marks	Assessment Date	Duration
Class Test	Evaluate students understanding of Javascript, HTML and CSS. The students will be asked to explain various snippets of HTML, CSS and Javascript code.	1,2	30.00	0	0	Week 10	0
Project	Evaluating students application of their knowledge of rich webpage development, including forms validation using Javascript.	1,2,3	70.00	0	0	Sem 1 End	0

No Project

No Practical

No End of Module Formal Examination

## Part Time

### Course Work

Assessment Type	Assessment Description	Outcome addressed	% of total	Marks Out Of	Pass Marks	Assessment Date	Duration
Class Test	Evaluate students understanding of Javascript, HTML and CSS. The students will be asked to explain various snippets of HTML, CSS and Javascript code.	1,2	30.00	0	0	Week 10	0
Project	Evaluating students application of their knowledge of rich webpage development, including forms validation using Javascript.	1,2,3	70.00	0	0	Sem 1 End	0

No Project

No Practical

No End of Module Formal Examination

**Reassessment Requirement****No repeat examination**

*Reassessment of this module will be offered solely on the basis of coursework and a repeat examination will not be offered.*

**Reassessment Description**

Students will be required to build a website that integrates their knowledge of client-side web development. The project will focus on how well the student manages client side forms validation using Javascript. Students will be marked on both their code and their performance in an interview.

**DKIT reserves the right to alter the nature and timings of assessment**

**Module Workload & Resources**

**Workload: Full Time**

Workload Type	Workload Description	Hours	Frequency	Average Weekly Learner Workload
Practical	Two three-hour labwork sessions	6.00	Every Week	6.00
Directed Reading	Student exercises and reading	7.00	Every Week	7.00
Independent Study	Student research on various topics in the indicative content	2.00	Every Week	2.00
Total Weekly Learner Workload				15.00
Total Weekly Contact Hours				6.00

**Workload: Part Time**

Workload Type	Workload Description	Hours	Frequency	Average Weekly Learner Workload
Practical	One three-hour labwork session	3.00	Every Week	3.00
Directed Reading	Student exercises and reading	3.00	Every Week	3.00
Independent Study	Student research on various topics in the indicative content	2.00	Every Week	2.00
Total Weekly Learner Workload				8.00
Total Weekly Contact Hours				3.00

**Resources**

*Recommended Book Resources*

Sasha Vodnik 2011, *HTML5 and CSS3*, 1st Ed., Cengage Learning Boston, USA [ISBN: 9781111527983]

Robin Nixon 2012, *Learning PHP, MySQL, JavaScript, and CSS*, 2nd Ed., O'Reilly  
<http://shop.oreilly.com/product/0636920023487.do> [ISBN: 9781449319267]

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

*Other Resources*

Website: *W3Schools Tutorial webpages on HTML5, CSS3, JavaScript, jQuery, AJAX, PHP and MySQL*  
<http://w3schools.com/>

**Module Delivered in**

Programme Code	Programme	Semester	Delivery
DK_KHCOJ_8	<a href="#">Higher Diploma in Science in Computing (2 year, p/t) -Jan</a>	1	Mandatory