

## Module Details

Full Title:	Rich Web Applications 1		
Language of Instruction:	English		
Module Code:	53751	Duration:	1 Semester
Credits:	5		
NFQ Level:	8		
Field of Study:	Computer Science		
Valid From:	Semester 1 - 2014/15 ( September 2014 )		
Module Delivered in	1 programme(s)		
Module Coordinator:	Derek O Reilly		
Module Author:	Peter Gosling		
Module Description:	Students completing this module will be aware of the design, implementation and deployment requirements of a fully maintainable, professional looking, content heavy feature rich dynamic cloud based application capable of being viewed over a wide range of devices.		

### Learning Outcomes:

*On successful completion of this module the learner should be able to*

1. Critically evaluate the issues that need to be addressed when designing and developing a content heavy web application
2. Apply appropriate technology to support rich feature client side appearance
3. Design, implement and test a content heavy database-driven cloud based web site.

### Pre-requisite learning

#### Module Recommendations

*This is prior learning (or a practical skill) that is strongly recommended before enrolment in this module. You may enrol in this module if you have not acquired the recommended learning but you will have considerable difficulty in passing (i.e. achieving the learning outcomes of) the module. While the prior learning is expressed as named DkIT module(s) it also allows for learning (in another module or modules) which is equivalent to the learning specified in the named module(s).*

No recommendations listed

#### Incompatible Modules

*These are modules which have learning outcomes that are too similar to the learning outcomes of this module. You may not earn additional credit for the same learning and therefore you may not enrol in this module if you have successfully completed any modules in the incompatible list.*

No incompatible modules listed

#### Co-requisite Modules

No Co-requisite modules listed

## Module Content & Assessment

Indicative Content	%
<b>HTML / CSS3 / Client / Server / Asynchronous data transfer.</b> Introduce complex coding / styling, utilise combinations of client and server side technology to accomplish specific tasks. Live updates from client and server / graph / chart generation / canvas animations with database content,	0.00%
<b>Rich Features</b> Integrate streaming video / RSS. Provide capability to change content based on an event - e.g. Summer Sales specials based on date in database or user location.	0.00%
<b>Back-Office Administration</b> An advance range of back-office activities will include the standard content maintenance / file upload capabilities, multiple user profiles, work-flow development and integration, pdf report generation among others.	0.00%
<b>Storyboarding / Narrative</b> Utilise storyboarding and site narrative techniques to develop user needs and introduce awareness of data presentation.	0.00%

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
Continuous Assessment	Graph Assessment - dynamically plot database data as a graph / chart in a web page	2,3	30.00	0	0	Week 5	0
Written Report	Storyboard of a planned rich web application, including markups of pages, process flows, work flows etc. Identify the target audience and target devices and develop a plan to accommodate both.	1,2	20.00	0	0	Week 10	0
Other	Contribution to lab activities and year long SEO project / web traffic analysis CA	2,3	10.00	0	0	Week 12	0
Project	Implement initial prototype of planned rich web application based on initial design.	3	40.00	0	0	Week 13	0

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

Repeat CA will consist of an overall project for the module which will combine all learning outcomes. Final project with a companion document detailing the storyboard narrative of the site, the code walk through, details of the admin capability / special features and database design plus testing plan and results.

**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	Lab based practicals	4.00	Every Week	4.00
Independent Study	Research appropriate material	4.00	Every Week	4.00
Total Weekly Learner Workload				8.00
Total Weekly Contact Hours				4.00

**This course has no Part Time workload.**

#### Resources

##### Recommended Book Resources

Matthew David 2013, *HTML5: Designing Rich Internet Applications (Visualizing the Web)*, 1 Ed., Focal Press [ISBN: 9780240820766]

Thoriq Firdaus 2013, *Responsive Web Design by Example*, 1 Ed. [ISBN: 9781849695428]

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

*This module does not have any other resources*

### Module Delivered in

Programme Code	Programme Title
DK_KCOMP_8	Bachelor of Science (Honours) in Computing (Approved)