Anglia Ruskin University

Module Definition Form (MDF)

Module code: MOD005431	**Version:** 1 **Date Amended:** 04/May/2016

1. Module Title
Developing Interactive Web Solutions

2a. Module Leader
Jamie Myland

2b. Department
Department of Computing and Technology

2c. Faculty
Faculty of Science and Technology

3a. Level
5

3b. Module Type
Standard (fine graded)

4a. Credits
15

4b. Study Hours
150

5. Restrictions

Type	Module Code	Module Name	Condition
Pre-requisites:	None		
Co-requisites:	None		
Exclusions:	None		
Courses to which this module is restricted:			

LEARNING, TEACHING AND ASSESSMENT INFORMATION

6a. Module Description

In recent years the development of web solutions has evolved with a clear separation of front-end behaviour and back-end processing. The module will expose students to client side interactive and dynamic web design techniques.

New tools and techniques have enabled developers to meet further interaction design needs of end users offering a fully engaging experience, by taking advantages of modern advancements in frameworks and adherence to current web standards.

Students will create and analyse web-based solutions using industry standard toolkits and frameworks for example Bootstrap, JQuery, AJAX and Foundation.

Students will also develop interactive websites using technologies such as JSON and XML, focusing of the data requirements of modern websites and how this data is communicated between the front-end view and the back-end model.

Real world examples will be used to underpin understanding and to build on topics introduced in previous modules.

The module is assessed by the student building a solution to meet a brief, demonstrating their work to the class and delivering a report which analyses similar public websites, justifies the student's design choices and evaluates their implementation.

Delivery will be supported using the Virtual Learning Environment and students will be expected to undertake interactive online activities on a weekly basis to support understanding and to share knowledge

6b. Outline Content

Javascript and JQuery

AJAX

Layout frameworks for example CSS and Bootstrap

Advanced HTML topics

Responsive website development

JSON

XML

6c. Key Texts/Literature

The reading list to support this module is available at: http://readinglists.anglia.ac.uk/modules/mod005431

6d. Specialist Learning Resources

VS Code

Selection of up-to-date web browsers e.g. Chrome, Firefox and Internet Explorer

7. Learning Outcomes (threshold standards)		
No.	**Type**	**On successful completion of this module the student will be expected to be able to:**
1	Knowledge and Understanding	Analyse and recommend available frameworks for a given scenario
2	Knowledge and Understanding	Describe the uses of CSS and JQuery appropriate to a given scenario
3	Intellectual, practical, affective and transferrable skills	Develop an interactive website for both mobile and desktop use
4	Intellectual, practical, affective and transferrable skills	Implement a Web 2.0 application

8a. Module Occurrence to which this MDF Refers				
Year	**Occurrence**	**Period**	**Location**	**Mode of Delivery**
2017/8	F01UCP	Semester 1	University Centre, Peterborough	Face to Face

8b. Learning Activities for the above Module Occurrence			
Learning Activities	**Hours**	**Learning Outcomes**	**Details of Duration, frequency and other comments**
Lectures	12	1,2,3,4	Lecture 1 hr x 12 weeks
Other teacher managed learning	24	1,2,3,4	Practical 2 hr x 12 weeks
Student managed learning	114	1,2,3,4	Self-study, skills practice, reading
TOTAL:	150		

9. Assessment for the above Module Occurrence					
Assessment No.	**Assessment Method**	**Learning Outcomes**	**Weighting (%)**	**Fine Grade or Pass/Fail**	**Qualifying Mark (%)**
010	Practical	1,2	30 (%)	Fine Grade	30 (%)
Presentation (1,000 words equivalent)					
Assessment No.	**Assessment Method**	**Learning Outcomes**	**Weighting (%)**	**Fine Grade or Pass/Fail**	**Qualifying Mark (%)**
011	Coursework	3,4	70 (%)	Fine Grade	30 (%)
Report on design and implementation (2,000 words)					

In order to pass this module, students are required to achieve an overall mark of 40%.
In addition, students are required to:
(a) achieve the qualifying mark for each element of fine graded assessment of as specified above
(b) pass any pass/fail elements