**Advanced Internet Development**

2016/17

**Level 6 Semester A**

**Faculty Arts, Environment and Technology**

**School – Computing, Creative Technology and Environment**

Student Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Email Address \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Course \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Group \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Module Tutor \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Tutor’s Telephone Number \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Tutor’s Email Address \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

***Communication Protocol:*** *module staff will reply to student questions within a reasonable time but this will normally be within office hours only. Students are advised to check this Handbook and also to see if there are any online announcements or FAQ answers that deal with their enquiry before contacting staff.*

**Contents**

Contents

[1 What this Module is About 1](#_Toc386789626)

[2 Module Timetable 2](#_Toc386789627)

[3 Key Resources to Support Learning 3](#_Toc386789628)

[4 Assessment 3](#_Toc386789629)

[4.1 Assessment Summary 3](#_Toc386789630)

[4.2 Assessment Details 4](#_Toc386789631)

[4.3 Feedback 8](#_Toc386789632)

[5 Understanding Your Assessment Responsibilities 9](#_Toc386789633)

# What this Module is About

**Introduction from the Module Leader**

The module will focus on current development standards and tools within the area of dynamic internet application systems. You will learn to build professional web-based systems utilizing a variety of current techniques and tools.

|  |  |
| --- | --- |
|  | Paul Doney  email: p.doney@leedsbeckett.ac.uk  Tel: 0113 8123713  Room: Caedmon CA119 |
|  | Simon Sharpe (Module Leader)  email: s.sharpe@leedsbeckett.ac.uk  Tel: 0113 8127593  Room: Caedmon CA222 |

**Module Aims**

The module will focus on current development standards and tools within the area of dynamic internet application systems, along with the critical evaluation of these techniques and their results.

Students will adopt a high-level tool-based approach to design and development, and will acquire the evaluative and practical skills required to design and develop web applications.

**Module Learning Outcomes**

|  |  |
| --- | --- |
| LO 1 | Select and apply suitable tools and technologies to develop internet systems, using appropriate professional standards. |
| LO2 | Evaluate technologies and tools used to implement web-based systems. |

**Module Learning Activities**

A combination of the following will be used:

* Lectures
* Self-managed learning
* Practical sessions

Lectures are used to introduce and discuss topics and material. Practical sessions will be used to reinforce concepts, and to extend the students’ knowledge. They will also be the foundation for the case studies which will form an integral part of the module.

As the module progresses, students will develop prototype sites which will also form part of the assessment for the module.

**Graduate Attributes Developed and Assessed**

* Enterprise: Key employability skills are developed and assessed for the final assignment
* Digital Literacy: Research varied techniques and apply to building web-based system are developed and assessed for the final assignment

# Module Timetable

**Semester 1**

|  |  |  |  |
| --- | --- | --- | --- |
| **Week/Date** | **Lecture** | **Lab** | **Resources** |
| **1 -26/9** | **Intro to course.**  **Web Projects** | **Lab 1: Web Projects**  Review of webpage development and IDE  Site structure.  Interface Design Guidelines  Hosting Options  html5 CSS3, form/php/security review |  |
| **2 – 3/10** | **PHP Review, Classes and Objects** | **Lab 2: PHP Review and Object Oriented PHP**  PHP Review: Language, functions, arrays, state.  Introduction to PHP Classes and Objects  Using PHP Objects and classes  OO PHP Libraries |  |
| **3- 10/10** | **Object Oriented Development with PHP** | **Lab3: Object Oriented Development with PHP**  Further OO (Inheritance, abstract classes, interfaces)  Data CRUD OO MySQLi with OO/PDO  OO Collections |  |
| **4- 17/10** | **Interface Technologies: DOM, JS and HTML5 Apis & JQuery** | **Checkpoint 1** |  |
| **Lab 4: Interface Technologies DOM/JQuery**  Review: DOM, Javascript, HTML5 (and APIs)  Introduction to JQuery |
| **5- 24/10** | **Interface Frameworks**  **JQuery, Ajax & AngularJS** | **Lab5: Interface Technologies**  JQuery& Ajax, AngularJS framework |  |
| **6 - 31/10** | **Internet Data Interchange & processing. (XML, JSON)** | **Lab6: Data Interchange and Processing**  Generating and Processing XML (XSLT, SimpleXML, Parsers)  Generating and processing JSON |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **7- 7/11** | **No Lecture** | **Lab 7: Start Web Services/API**  Work towards checkpoint 2 |  | |
| **8- 14/11** | **Web API/Services** | **Checkpoint 2** |  | |
| **Feedback on CP2 + continue with WebAPI/Services** |
| **9 - 21/11** | **Introduction to Patterns and Frameworks** | **Lab 9: PhP Patterns and Frameworks 1**  Review PHP Libraries,  Design Patterns  Introduction to PHP frameworks  Frameworks Tutorial (eg CodeIgnitor, Zend, Laravel, Cake, Symfony..) |  | |
| **10 – 28/11** | **PHP Frameworks** | **Lab10: Frameworks 2**  Frameworks Tutorial |  | |
| **11 -5/12** | **Assignment support** | **Assignment support** |  | |
| **12 – 12/12** | **Assignment support** | **Assignment support** |  | |
| **13– 11/01/15** | Submission and Assessment | | |
| **14 18/01** | Assessment | | |

# Key Resources to Support Learning

The VLE will be used extensively to host resources and coordinate the delivery and assessment of this module.

In addition, the following texts will be useful

|  |  |
| --- | --- |
| Author/ Editor | Thomson Welling |
| Title | PHP & MySQL Web Development |
| Edition | 5th |
| Publication Year | 2014 |
| Publisher | Addison-Wesley |
| ISBN | **978-0321833891** |
| Recommended reading Y | |
| Recommended for Purchase | N |

Students should also refer to the following site:

<http://zilmat.com/int/index.php>

All disabled students requiring additional support or alternative arrangements must declare and provide evidence of their disability to the Disability and Advice Team as early as possible: <https://www.leedsmet.ac.uk/studenthub/disability-services.htm>.

# Assessment

## Assessment Summary

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Assessment Method:** | **Weighting:** | **Assessment date:** | **Feedback Method:** | **Feedback date:** |
| **1.**  Practical assignment. based on implementing web technologies.  Incorporating a checkpoints and final  Demonstration and evaluation. | **100%** | **See VLE** | **Written and Verbal** | **See VLE** |
| **Reassessment Method:** | **Weighting:** | **Assessment date:** | **Feedback Method:** | **Feedback date:** |
| **1.**  **Make good original assignment.** | **40% (RA)**  **100% (DEF)** | **See VLE** | **Written and Verbal** | **See VLE** |

## 

**Coursework**

**Student Instructions for Submission of Coursework**

|  |
| --- |
| This module requires you to submit your work on-line.  You MUST submit your work through the VLE using the link set up by the tutor . Receipt of your work will be recorded.  Your "Turnitin assignments" in the VLE can be set up so that you can check your assignment yourself as you submit it. This checking is done by creating an "Originality Report".  If this report shows that there are some problems with your work, such as un-cited quotations, you should be able to make corrections and re-submit the work again before the due date.  **Please note:** Tutors will follow up any suspected plagiarism and unfair practice found after the submission date as per University policy. Late penalties will apply as per University regulations. |

Special Instructions

A mid module review will be timetabled into your module by Week 7. This is an opportunity to iron out modular issues rapidly early on in the module. In addition, you will have the opportunity to feed back formally at the end of your module. These comments will be reviewed by your course leader and course team and some may be considered at your annual course enhancement meeting. Your Student Representative will attend this and take your views to this meeting for discussion.

# Understanding Your Assessment Responsibilities

**Mitigation and Extenuating Circumstances**

If you are experiencing problems which are adversely affecting your ability to study (called 'extenuating circumstances'), then you can apply for mitigation. You can find full details of how to apply for mitigation at: <http://www.leedsmet.ac.uk/studenthub/mitigation.htm>.

The University operates a fit to sit / fit to submit approach to extenuating circumstances which means students who take their assessment are declaring themselves fit to do so.

**Late Submission**

Without any form of extenuating circumstances, standard penalties apply for late submission of assessed work. These range from 5% to 100% of the possible total mark, depending on the number of days late. Full details (section C1.5.7) of the penalties for late submission of course work are available at <http://www.leedsbeckett.ac.uk/about/academic-regulations.htm> (see C1).

**Cheating, Plagiarism and Other Forms of Unfair Practice**

Academic misconduct occurs when you yourself have not done the work that you submit. It may include cheating, plagiarism, self-plagiarism, collusion and other forms of unfair practice. What is and what is not permitted is clearly explained in *The Little Book of Cheating, Plagiarism and Unfair Practice* which is available to view at: <http://www.leedsbeckett.ac.uk/studenthub/plagiarism.htm>.

The serious consequences of plagiarism and other types of unfair practice are detailed in section C9 of the Academic Regulations at <http://www.leedsbeckett.ac.uk/about/academic-regulations.htm>.