

London South Bank
University

Module Guide

Web Services, Security and Management

BIF-6-WSM

<https://my.lsbu.ac.uk>

School of Engineering

2017/18

Level 6

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1. MODULE DETAILS

Module Title:	Web Services, Security and Management
Module Level:	6
Module Reference Number:	BIF-6-WSM
Credit Value:	20
Student Study Hours:	200
Contact Hours:	65
Private Study Hours:	135
Pre-requisite Learning (If applicable):	L4 Software Development 1 and 2, L4 Databases
Co-requisite Modules (If applicable):	none
Course(s):	BSc Information Technology/Web Development
Year and Semester	Year 3 Semester 2
Module Coordinator:	Mike Child
MC Contact Details (Tel, Email, Room)	020-7815-7483, childm@lsbu.ac.uk , FW112
Teaching Team & Contact Details (If applicable):	n/a
Subject Area:	Web Development
Summary of Assessment Method:	Coursework and Exam
External Examiner appointed for module:	[TBA: the name, position and institution of the subject area external examiner appointed for the module]

2. SHORT DESCRIPTION

This module introduces the concepts and knowledge to effectively design, manage, and maintain a website. This will be done, by presenting you with the technologies involved in website management as well as describing the means of converting applications to Web-applications via the use of Web services.

3. AIMS OF THE MODULE

This module aims to enable you, through interpretation of underlying technical and end-user issues, to specify appropriate computer software and hardware, and security measures in managing a commercial or non-commercial Website.

4. LEARNING OUTCOMES

4.1 Knowledge and Understanding

On completion of the module you will be able to:

- Understand the need for websites that are built for particular paradigms and adhere to recognised industry standards.

4.2 Intellectual Skills

On completion of the module you will be able to:

- Critically evaluate systems and procedures.

4.3 Practical Skills

On completion of the module you will be able to:

- Demonstrate the appropriateness of systems with walk-throughs and reasoned argument.

4.4 Transferable Skills

On completion of the module you will be able to:

- Use research skills to make notes to both aid decision making and underpin the direction of future research.

5. ASSESSMENT OF THE MODULE

60% coursework, 40% examination

The main assessed coursework element will be a website appraisal task. You will be given a number of different websites and will be required to write an appraisal of each site in terms of the subject matter covered in this module. This will involve considering hosting requirements, security considerations, possible applications of web services and potential semantic enhancements to the content. You will be contrasting each site with the others. The appraisal will consist of a written report.

6. FEEDBACK

Students will receive ongoing feedback on their coursework during the lab sessions, and will normally receive written feedback on coursework submissions within 15 days.

7. INTRODUCTION TO STUDYING THE MODULE

7.1 Overview of the Main Content

The first part of this unit will explore issues such as configuring and maintaining a Web server, including: HTTP, access control, and security, as well as exploring tools and techniques for maintaining and managing large Websites, such as log analysis and version control. The second part will introduce Web services, and the Semantic Web.

7.2 Overview of Types of Classes

There will be a combination of lectures delivering technical, theoretical and contextual information, and lab sessions in which students will work through practical exercises.

7.3 Importance of Student Self-Managed Learning Time

Although much laboratory time will be dedicated to practical exercises, students will need to spend more time in independent study on this. In addition, the theoretical material delivered in lectures will require independent reading and study in order to grasp it fully and prepare for the examination.

7.4 Employability

Potential employers are likely to be impressed if you can say that you have had knowledge of managing a Website and configuring and maintaining a Web server as well as an awareness of the Semantic Web and its role in providing Web Services.

8. THE PROGRAMME OF TEACHING, LEARNING AND ASSESSMENT

The following outline is only indicative, the order and exact content of the lectures may vary according to unavoidable factors.

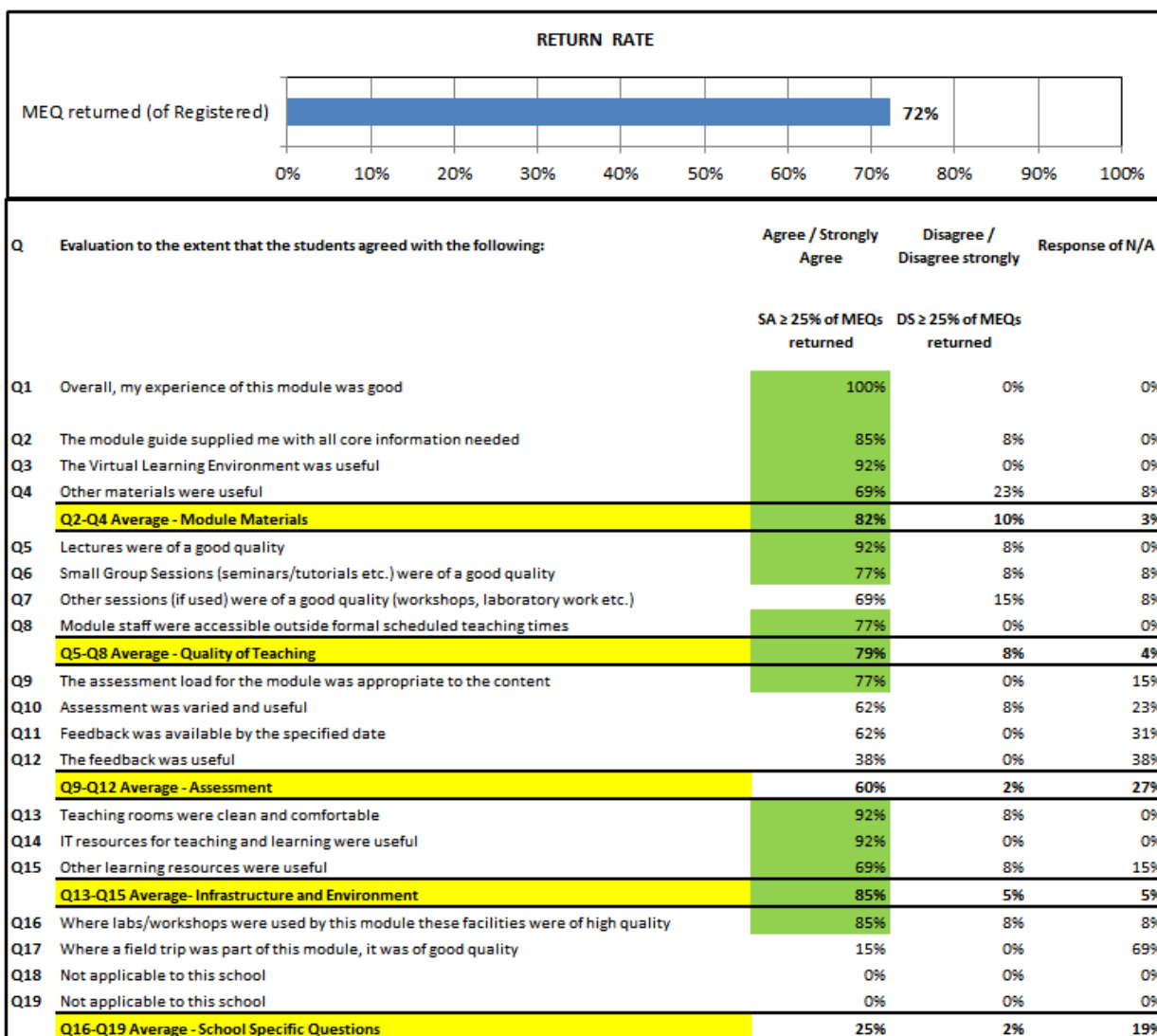
Week	Content	Lab
1	Web Hosting and Server Configuration	Domain Names and Hosting Plans
2	Web Hosting and Server Configuration	Apache configuration
3	Web Hosting and Server Configuration	cPanel
4	Web Security	Basic Authentication
5	Web Security	HTTPS
6	Web Security	Hacking Threats
7	Web Services - WSDL etc.	WSDL Demo
8	Web Services - RestFul Applications	
9	Semantic Web	
10	Semantic Web	
11	Review of Web Hosting and Security	
12	Review of Web Services and the Semantic Web	
13	Exam Revision	

9. STUDENT EVALUATION

In academic session 16/17 this module ran with only two students. The feedback in that case was therefore not very informative.

This is the feedback From 15/16 delivery:

Module code: BIF_6_WSM
 Level: 6
 Students registered: 18



10. LEARNING RESOURCES

10.1 Core Materials

- McClure, S., Scambray, J, and Kurtz, G. Hacking Exposed, Sixth Edition: Network Security Secrets& Solutions: Network Security Secrets and Solution. McGraw-Hill Osborne 2008.
- Laurie, B & Laurie, P (2003) Apache: the definitive guide, O'Reilly
- Wainwright, P (2004) Pro Apache, 3rd edn, Apress
- Larson & Stevens 2002 Web Servers, Security and Maintenance, Prentice Hall

10.2 Optional Materials

NOTES

none