



UNIVERSITY OF WALES: TRINITY SAINT DAVID
PRIFYSGOL CYMRU: Y DRINDOD DEWI SANT

School of Applied Computing

Web Development ACCC5004
Level 5

MODULE CODE: ACCC5004

TITLE: Web Development

LEVEL: 5

CREDITS: 20

JACS CODE: I 320

AIM(S)

- To provide students with a systematic understanding of web development using server-side programming languages.

LEARNING OUTCOMES

Upon the successful completion of this module, the student should be able to demonstrate the ability to:

1. Evaluate the concepts, principles, technologies and techniques used in the development of web applications.
2. Design and implement web applications using server-side programming language(s) to resolve a range of web-based problem scenarios.

INDICATIVE CONTENT

- Server-side programming languages eg PHP, ASP.NET
- Syntax, semantics, constructs including data types, variables, operators, arrays, lists etc.
- Web-based database programming techniques providing typical CRUD functionality
- Implementing dynamic database relationships
- Reading and validating data from web forms eg cleaning data, string processing
- Handling stateless HTTP eg cookies, sessions
- Dynamic content eg user-driven events

LEARNING AND TEACHING STRATEGY

Essential concepts and principles will be delivered formally in lectures supported by concurrent practical laboratory exercises, which will allow students to deploy appropriate theory, practices and tools. Seminars will be punctuated with examples designed to underpin the ideas and techniques introduced, reducing the conceptual leap from theory to practice.

The allocation of teaching to deliver the module is:

Activity type	Hours	Percentage
Scheduled learning	60	30%
Independent learning	140	70%
Placement learning	0	
TOTAL	200	100%

BIBLIOGRAPHY

Essential

Walther S and Dudek N S (2014) *ASP.NET 4.5 Unleashed*, Sams

Ullman, L (2011) *PHP and MySQL for Dynamic Web Sites: Visual QuickPro Guide*, Peachpit Press

Background

McGrath, M (2012) *PHP and MySQL In Easy Steps*, in easy steps.

Tatroe K, MacIntyre P and Lerdorf, R (2013) *Programming PHP*, O Reilly.

MacDonald, Matthew (2012) *Beginning ASP .NET 4.5 in C# 5th Edition*, Apress.

Gaylor, JN., Wenz, C., Rastogi, P and Miranda, T (2013) *Professional ASP.NET 4.5 in C# and VB*, Wrox.

Websites

<http://www.php.net>

<http://www.phpbuilder.com/>

<http://www.asp.net/mvc>