Institute of Technology Tallaght
Institiúid Teicneolaíochta Tamhlacht

WBDB H1002: Web and Database Fundamentals Extra Header Data

Module Delivered in

Programme Code	Programme	Semester	Delivery
TA_KACOM_B	Bachelor of Science (Honours) in Computing	1	Mandatory
TA_KAITM_B	Bachelor of Science (Honours) in IT Management	1	Mandatory
TA_KACOM_D	Bachelor of Science in Computing	1	Mandatory
TA_KITMG_D	Bachelor of Science in IT Management	1	Mandatory
TA_KCOMP_C	Higher Certificate in Science in Information Technology	1	Mandatory

Short Title:	Web and Database Fundamentals APPROVED
Full Title:	Web and Database Fundamentals

Module Code:	WBDB H1002	**NFQ Level:**	6	**ECTS Credits:**	4

Reviewed By:	FINBARR FEENEY

Description:	This module aims to: • To communicate a knowledge and understanding of the basic concepts of relational databases and web sites • To demonstrate the use of a standard database package • To demonstrate the use of a HTML editor for visually designing and managing Web sites and pages • To demonstrate the development of web pages with tables, frames, links, images and templates • To demonstrate the development of database applications with multiple tables, forms, queries, reports and relations

Learning Outcomes:

On successful completion of this module the learner will be able to

1. Explain the basic principles of web page design and creation
2. Describe and apply the fundamental concepts databases
3. Demonstrate proficiency in the development of a web site
4. Demonstrate proficiency in the development of a database

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Module Content & Assessment

Content
INTRODUCTION TO WEB DESIGN AND DEVELOPMENT Introduction to a HTML Editor, defining a site, creation of tables, frames, insertion of images, creation of links, manipulating of text properties, use of templates **INTRODUCTION TO DATABASES** Introduction to a standard database package, introduction to the concept, use and advantages of relational databases, creation of tables, forms, queries and reports, entry, manipulation and retrieval of data, creation of links between tables

Assessment Breakdown	%
Course Work	100%
End of Semester Formal Examination	0%

Coursework Breakdown

Type	*Description*	*Outcome addressed*	*% of total*	*Assessment Date*
Continuous Assessment	CA1 – in-lab: A CA where the student will be assessed on their proficiency in the development of a database. Typical task: Create a database application with specified multiple tables and relations, populate with data and query the database. Task assessed in terms of: The ability to use a standard database package to create the tables and relations and to populate the tables; The ability to create the necessary queries and reports to provide the data requested		30	n/a
Continuous Assessment	CA2 - A CA where the student will be assessed on their proficiency in the development of a web site Typical task: Create a web site with multiple pages to a specified design using frames, tables, text manipulation, templates and links, using a standard HTML editor. Task assessed in terms of: The ability to use a standard HTML editor to create and link the web pages; The correct use of frames, tables, text manipulation and templates		30	n/a
Continuous Assessment	CA3 - A CA where the student will be assessed on their understanding of the theoretical concepts of modern databases and/or the basic principles of web design. Typical task: Write a report describing the function, operation and advantages of a modern database. Task assessed in terms of: The students ability to demonstrate their understanding of the concepts involved		40	n/a

IT Tallaght reserves the right to alter the nature and timings of assessment

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Module Workload & Resources

This course has no full time workload.

Resources

Recommended Book Resources

Julian Rickards,, *Essentials for Design Macromedia* [ISBN: ISBN: 0-13-146842-1]

Pamela R. Toliver 2004, *Essentials Microsoft Office Access 2003 level one*, Pearson/Prentice Hall Upper Saddle River, NJ [ISBN: ISBN: 0-13-143575-2]