F27WX Web Design and Databases

COURSE DETAILS
Course Code: F27WX
Full Course Title: Web Design and Databases
SCQF Level: 7
SCAF Credits: 15
Available as Elective: No

DELIVERY LEVEL
Undergraduate: Yes  Postgraduate Taught: No  Postgraduate Research: No

COURSE AIMS
To develop knowledge and understanding of fundamental web design concepts and combine these with database structuring and querying techniques applying this knowledge by implementing an easy-to-use website.

LEARNING OUTCOMES – SUBJECT MASTERY

• To explain fundamental web design concepts including usability.
• To implement a simple web site which satisfies current standards and uses a database.
• To describe the use of CSS and mark-up within a web site and the advantage this gives the developer.
• To describe the need for standard XHTML and how this aids cross browser compatibility.
• To have knowledge and understanding of data analysis and structuring techniques.
• To design database structures as a relational data model.
• To implement and query a designed database structure through a web site.

LEARNING OUTCOMES – PERSONAL ABILITIES

• To analyse complex information and organise it in a structured way for a web site.
• To understand stakeholders’ requirements and address them.
• To design a web site that is easy and cost efficient to manage.
• To analyse data sources and represent them in an efficient structured form.
• Problem solving (PDP).
• Paired work (PDP).
• Time management (PDP).
• To be able to relate learned knowledge to a work-based environment

• Reflection, constructive criticism and learning from peers (PDP).

SYLLABUS

• Introduction to web development.
• Information architecture.
• Web design and usability.
F27WX Web Design and Databases

- Fundamentals of Mark-up and CSS.
- Introduction to database systems.
- Databases and Information Systems.
- Modelling of data/entity-relationship modelling.
- The relational data model.
- The Structured Query Language (SQL).
- Web-based database applications including the use of PHP.

COURSE RELATIONSHIPS
N/A

LOCATION AND ASSESSMENT METHODS

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