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 |

**Additional Information:**

**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.
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- 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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