F28WP Web Programming

COURSE DETAILS

Course Code: F28WP  
Full Course Title: Web Programming  
SCQF Level: 8  
SCAF Credits: 15  
Available as Elective: No

DELIVERY LEVEL

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<th>Postgraduate Taught</th>
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Additional Information:

COURSE AIMS

To familiarise students with current techniques and paradigms in web programming. To enable them to design and implement robust and scalable web based applications.

LEARNING OUTCOMES – SUBJECT MASTERY

- Broad knowledge and understanding of the history of web programming
- The ability to apply the concepts, patterns and architectures used in web programming to new problems
- Detailed technical skills to use a scripting language for both server side and client side programming
- The ability to make informed decisions about appropriate web technologies to use for a particular task

LEARNING OUTCOMES – PERSONAL ABILITIES

- Practice in working on a development project in a small group under the guidance of a tutor
- Practice in defining the subject and scope of a development project (PDP)
- Deconstructing a problem and synthesizing a solution
- Time management

SYLLABUS

- History of web development technologies
- Design patterns (such as REST, Separation of content and presentation, and abstraction of resources)
- Server side programming using an appropriate scripting language
- General architecture of a web server
- Templating systems
- Client side programming topics, including the Document Object Model
- Security relating to web applications
- Deployment, including coping with scale

COURSE RELATIONSHIPS

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