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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<th>Postgraduate Research:</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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<tr>
<th>Course Code</th>
<th>Level</th>
<th>Title</th>
<th>School</th>
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<td>F27WD</td>
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<td>Web Design and Databases</td>
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### LOCATION AND ASSESSMENT METHODS

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