# 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

- **Undergraduate:** Yes
- **Postgraduate Taught:** Yes
- **Postgraduate Research:** No

## 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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### LOCATION AND ASSESSMENT METHODS

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