

Web Application Development

BSc. Web Technology and Programming

Indicative Syllabus

- Advanced markup and presentation techniques and skills (HTML & CSS)
- Advanced behaviour techniques using Javascript (Objects, Events, and Error Handling)
- Introduction to Javascript frameworks specifically jQuery
- Variables, Conditional Statements, Loops and Functions
- Implementation of Javascript plugins

Indicative Syllabus

- Software version control
- Introduction to Server Side Programming, PHP
- Develop a Dynamic Website
- Managing the development lifecycle
- Introduction to unit testing

Indicative Syllabus

- Store data using Javascript Object Notation (JSON) – **Note:Mobile Apps**
- Persistent storage using browser session and local storage
- Interact with server data using Asynchronous Javascript and XML techniques (AJAX)
- Website optimisation techniques for security and performance
- Develop a multi-page interactive web application to work on a range of desktop and mobile browsers

Assessments

- Two in class assessments. Both of these will be flagged to you a week in advance. Areas for testing will be indicated to you in order to prepare for the assessment. These will be open book assessments.
- Continuous assessment. A website with an opening page. The opening page to include link or links to summary page(s), which briefly state what was covered in lectures / labs on a particular week. This will be submitted as part of the final project.
- Project. This will be a dynamic website, possibly on a virtual machine, accessible on the public internet. It will include a release note and a link to a repository on GitHub, so that anyone could access it, download it and deploy the website to a server.

Note: This could change depending on circumstances. Any changes will be flagged to you with plenty of notice.