

<b>Date</b>	<b>Topic</b>	<b>Content</b>	<b>Method/Activity</b>	<b>Resources</b>	<b>Evaluation / Assessment</b>
22-23 Sept	Module Introduction	Overview of technologies involved: PHP, MySQL, and Apache. Introduction to Awardspace.	Introduction presentation. Registration and use of Awardspace.	Module Description form; Data projector (for presentation) Internet access to Awardspace.com.	Questioning during presentation; monitoring of registration and discovery of Awardspace.
29-30 Sept	PHP syntax and structure.	Iteration and selection in PHP; Create a calendar in PHP.	Implement examples; calendar: access reference information; implement Month Calendar structure; trial and error to discover an algorithmic solution to the date calculations.	w3schools.com for reference; Awardspace for implementation.	As above; online support of development off-class.
06-07 Oct	HTTP protocol and PHP	HTTP protocol; GET and POST methods in HTTP; Built-in PHP variables for GET, POST and FORM; cookies and sessions.	Implement examples; form handling and site login exercises.	Exercise series on form handling, password simulation, using cookies for security.	
13-14 Oct	Introduction to database connectivity.	Database connectivity example; roles of database server and web server; method for generating output.	Using MySQL via PHPMyAdmin; implement the database connectivity code. experiment modifications, primarily of SQL queries and output.	W3schools and Awardspace sites.	As above (Assignment)
20-21 Oct	Parameterising queries from programmatic input.	Using a form to modify an SQL query.	Building form and handler to include database query.	As above	As above
27-28 Oct	Half-term				

03-04 Nov	Refactoring	Application of functions, variables, and include files to simplifying the database connectivity code.	Implement a utility file to support development of database connectivity systems.	As above, plus example utils.php file.	As above
10-11 Nov	Producing any output from database data.	A systematic method for transforming a database record set to HTML.	Application exercises: develop HTML output and the code to generate it for links, tables, and simple forms.	Internet sources, plus output exercise sheet.	As above
17-18 Nov	Automatic form generation	Generating forms to update or delete data	Implement systems for automatic update or automatic deletion.	Internet resources; summary of assignment requirements to identify uses of the techniques.	As above
24-25 Nov	Apache	The LAMP platform; Installing and configuring the XAMPP or WAMP packages.	Pre-work installing XAMPP or WAMP. Investigation of the configuration.	Internet resources; research exercises (guide).	As above
01-02 Dec	Security and validation	Data insertion attacks. Validation techniques in JavaScript and PHP. Sequence diagrams of JavaScript validation.	Data insertion exercise. Study and adapt examples from w3schools. Grep patterns.	Data insertion cartoon; w3schools for source examples.	As above.
08-09 Dec	AJAX	Purpose and usage of Ajax. Ajax Sequence diagram.	Ajax example from w3schools (code) and eL-CID (purpose).	Internet resources on w3schools.com and boisvert.me.uk.	As above.
15 Dec to 04 Jan 2009	Christmas				

05-06 January 2009	Trouble shooting session				Monitor and support progress with assignment. (assignment due by week's end)
12-13 Jan	Semantic Web	Examples of web 2.0 and web 3.0. Web services. The deep Web.	Study examples of Applications: RSS; mashups; component frameworks; and of techniques: Rest; Semantic Web technologies.	Tim Berners-Lee's semantic web paper. Internet sources for research.	Questioning during presentation, monitoring of registration and discovery of Awardspace.
19-20 Jan	Revise / Prepare				
27-28 Jan	Presentation				