ISCG7420:   Web Application Development

Course number:	ISCG7420		Level:	7	Credits:	15
Main programme:	BCS				Elective	
Pathway(s):						
Requisites / Restrictions:	Prerequisites: (ISCG6414 or ISCG6234 or ISCG7132 or ISCG7142) and (ISCG6421 or ISCG6222) and (ISCG6420 or ISCG6240) Restrictions: ISCG7225					
Other programmes:	GDCMP					
NZSCED field of Study:			Delivery mode:			

Hours directed:	Hours in the Workplace:	Hours Self-directed:	Total Learning Hours:
32.5		117.5	150

Students are expected to adhere to Unitec's policy on conduct in respect of staff, fellow students, and in the use of resources and facilities. Students are required to attend 100% of all scheduled classes.

Outcome Statement:

To provide students with knowledge and skills for developing client-server and web-based applications in the Intranet/Internet environment

Learning Outcomes:

1. Discuss the philosophy of client-server computing and its impact to the computing industry.

2. Discuss the tools used in providing web-based applications.

3. Design and implement a dynamic web application using a range of languages/technologies/tools.

4. Discuss and evaluate the available data access technologies.

5. Design and develop a database client-server solution that meets specified organisational requirements using database and modern data access technologies.

Learning and Teaching:

Lectures, tutorials and laboratory practicals

Topics:

designing and developing database driven web applications by using current web client/server technologies, tools and languages.

Assessment:

Students will be advised of all matters relating to summative assessment at the outset of the course. Overall course grades will represent a balanced assessment of achievement in relation to all stated learning outcomes.

Weighting	Nature of assessment	Learning outcomes
60%	Programming assignment to design & develop a database driven dynamic web application	1, 3, 5
40%	Assignment to implement assignment 1 by using different technology and then critique the two technologies	1, 2, 3, 4, 5

Feedback:
Feedback is sought throughout the course using a range of assessment tools including:
Formal reflection, class forum and end of course survey

Learning resources required:
A web server which supports multiple server side languages/technologies, internet access from Unitec and the following software:

- Internet Explorer
- Mozilla Firefox
- Opera
- Netscape
- Macromedia Studio
- Adobe Photoshop
- Visual Studio .NET
- MS SQL Server
- My SQL Server
- MS Access Database
- A IDE for PHP

Learning resources recommended:

Other Programmes:

GDCMP	**Elective**	Restrictions: ISCG7225

Version Tracking:

Version No.	Date of Change	Effective from	Approved by	Description of change