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| **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:** |  | | |

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| **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

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| **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.

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| **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:**

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| GDCMP | **Elective** | Restrictions: ISCG7225 |

**Version Tracking:**

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