APPLICATION PROCEDURE

FULL TIME

The school has 2 intakes of full time students each year. To apply for a position you are required to complete the enclosed application form and return it together with ALL the necessary documents.

APPLICATION PROCESS

Your Education Begins

Send in your Application Form

We acknowledge your application in writing

Selection of Application (You may be asked for interview or more details)

If you are selected, we will send you a letter to inform you of the outcome

We will send you an Enrolment Pack

YOUR GLOBAL EDUCATION PARTNER

Chartered Institute of Technology Pte Ltd

www.citechonline.com

DIPLOMA IN INFOCOMM TECHNOLOGY

YEA R 1

Module Code Module
IT101 Information Technology - Concepts & Tools
PR109 Programming Precepts
IS101 Information Systems
BU103 Professional Communication
IT151 Multimedia & Internet Technologies
PR101 Introduction to Computer Programming
CS111 Computer Architecture
IT241 Website Development

OPTION C: Web Applications & Server Management
Module Code Module
CS203 Data Communications and Computer Networks
CS341 Web Server Administration
PR341 Client Side Programming
PR342 Server Side Programming

OPTION D: Data Communication & Networking
Module Code Module
CS203 Data Communications and Computer Networks
CS251 Local Area Network - Administration & Management
CS301 Network Technology

OPTION E: E-Commerce & Marketing
Module Code Module
EM2001 Marketing Operations
EM2002 Marketing Research & Data Management
EM2003 E-Commerce & Supply Chain Management
EM2004 The Marketing Customer Interface

YEAR 2

COMPULSORY

Module Code Module
IS201 Alternate Modeling Information Systems Implementation
IS202 System Design and Implementation (Not Applicable for Option E)
PR203 Database Management Systems
CS211 Operating Systems Theory
CS221 Applied Operating Systems
PM101 Principles of Management

OPTION A: Software Applications Development
Module Code Module
CS203 Data Communications and Computer Networks
PR212 Introduction to Programming in Java
PR222 Best Programming in Java
PR213 Introduction to Programming in Visual Basic
PR230 Software Engineering

OPTION B: Multimedia Applications Development
Module Code Module
IT251 Multimedia Application Development
IT351 Multimedia Application Development & Management
IS301 Software Management

YEAR 2

SPECIALIZATION STREAM

DIPLOMA IN INFOCOMM TECHNOLOGY

MBA

GCE ‘O’ Level and above
CITECH Professional Certificate
CITECH Diploma (With Specialization)
Bachelor Degree or Postgraduate Diploma

From Commonwealth Universities

Validation body:
Validation body and in association with:

This publication is correct at the time of printing, information covered is subject to change.
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EDUCATION ADVANCEMENT PATH

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GCE 'O' Level and above

Validation body and in association with:
CHRISTCHURCH POLYTECHNIC
Institute of Technology
NEW ZEALAND

Validation body:
IMNET
The IT Training Arm of
The Chartered Institute of Marketing

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Chartered Institute of Technology Pte Ltd
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PROGRAMME CONTENT

YEAR 1

<table>
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<tr>
<th>Module Code</th>
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</thead>
<tbody>
<tr>
<td>IT101</td>
<td>Information Technology - Concepts &amp; Tools</td>
</tr>
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<td>IS101</td>
<td>Information Systems</td>
</tr>
<tr>
<td>BU103</td>
<td>Professional Communication</td>
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<tr>
<td>IT151</td>
<td>Multimedia &amp; Internet Technologies</td>
</tr>
<tr>
<td>PR101</td>
<td>Introduction to Computer Programming</td>
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<tr>
<td>CS111</td>
<td>Computer Architecture</td>
</tr>
<tr>
<td>IT241</td>
<td>Web Site Development</td>
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</tbody>
</table>

YEAR 2 (Compulsory)

<table>
<thead>
<tr>
<th>Module Code</th>
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</tr>
</thead>
<tbody>
<tr>
<td>IS201</td>
<td>Alternate Modeling Information Systems Implementation</td>
</tr>
<tr>
<td>IS202</td>
<td>System Design and Implementation (Not Applicable for Option E)</td>
</tr>
<tr>
<td>PR203</td>
<td>Database Management Systems</td>
</tr>
<tr>
<td>CS211</td>
<td>Operating Systems Theory</td>
</tr>
<tr>
<td>CS221</td>
<td>Applied Operating Systems</td>
</tr>
<tr>
<td>PM101</td>
<td>Principles of Management</td>
</tr>
</tbody>
</table>

YEAR 2 (Specialization Stream)

OPTION A: Software Applications Development

<table>
<thead>
<tr>
<th>Module Code</th>
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<tbody>
<tr>
<td>CS203</td>
<td>Data Communications and Computer Networks</td>
</tr>
<tr>
<td>PR212</td>
<td>Introduction to Programming in Java</td>
</tr>
<tr>
<td>PR222</td>
<td>Best Programming in Java</td>
</tr>
<tr>
<td>PR213</td>
<td>Introduction to Programming in Visual Basic</td>
</tr>
<tr>
<td>PR230</td>
<td>Software Engineering</td>
</tr>
</tbody>
</table>

OPTION B: Multimedia Applications Development

<table>
<thead>
<tr>
<th>Module Code</th>
<th>Module</th>
</tr>
</thead>
<tbody>
<tr>
<td>IT251</td>
<td>Multimedia Application Development</td>
</tr>
<tr>
<td>IT351</td>
<td>Multimedia Application Development &amp; Management</td>
</tr>
<tr>
<td>IS301</td>
<td>Software Management</td>
</tr>
</tbody>
</table>

OPTION C: Web Applications & Server Management

<table>
<thead>
<tr>
<th>Module Code</th>
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<tbody>
<tr>
<td>CS203</td>
<td>Data Communications and Computer Networks</td>
</tr>
<tr>
<td>CS341</td>
<td>Web Server Administration</td>
</tr>
<tr>
<td>PR341</td>
<td>Client Side Programming</td>
</tr>
<tr>
<td>PR342</td>
<td>Server Side Programming</td>
</tr>
</tbody>
</table>

OPTION D: Data Communication & Networking

<table>
<thead>
<tr>
<th>Module Code</th>
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</tr>
</thead>
<tbody>
<tr>
<td>CS203</td>
<td>Data Communications and Computer Networks</td>
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<td>Local Area Network - Administration &amp; Management</td>
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<tr>
<td>CS301</td>
<td>Network Technology</td>
</tr>
</tbody>
</table>

OPTION E: E-Commerce & Marketing

<table>
<thead>
<tr>
<th>Module Code</th>
<th>Module</th>
</tr>
</thead>
<tbody>
<tr>
<td>EM2001</td>
<td>Marketing Operations</td>
</tr>
<tr>
<td>EM2002</td>
<td>Marketing Research &amp; Data Management</td>
</tr>
<tr>
<td>EM2003</td>
<td>E-Commerce &amp; Supply Chain Management</td>
</tr>
<tr>
<td>EM2004</td>
<td>The Marketing Customer Interface</td>
</tr>
</tbody>
</table>
Have specialist knowledge in programming, data communication and networking, multimedia or E-Commerce. Be well versed in management theories, project management, and database design and implementation. Have a sound knowledge of systems analysis and design. Have extensive knowledge and experience in a wide range of hardware and software packages, including E-Commerce.

**PROGRAMME OBJECTIVE**

The aims of this Diploma in ICT are to produce graduates who:
- Have extensive knowledge and experience in a wide range of hardware and software packages
- Have a sound knowledge of systems analysis and design
- Are well versed in management theories, project management, and database design and implementation
- Have specialist knowledge in programming, data communication and networking, multimedia or E-Commerce.

**WHO ARE BEHIND OUR DIPLOMA IN ICT?**

Our CITECH Diploma programs are all quality assured by the Christchurch Polytechnic Institute of Technology, New Zealand and CIMNET - The IT Training Arm of The Chartered Institute of Marketing, UK, on our curriculum, assessment and admission criteria.

**WHAT IS INVOLVED IN “DIPLOMA” IN ICT?**

This Diploma requires 2 years of full time study. The 2 years are divided into 2 semesters each year.

The compulsory core credits include courses covering:
- Information Technology, Information Systems
- Multimedia, Computer Architecture, Programming
- Internet Technologies, Website Development
- Database Management Systems and Professional Communication

There are 5 streams of specializations which students can choose to complete in Year Two.
- Software Applications Development
- Multimedia Applications Development
- Web Application and Server Management
- Data Communications and Networking
- E-Commerce & Marketing

**WHAT’S NEXT AFTER DIPLOMA IN ICT?**

Upon completion of the Diploma in Infocomm Technology, graduates have the option to further their study in Bachelor in Information & Communication Technologies at Christchurch Polytechnic Institute of Technology (CPIT) in New Zealand. This course is normally completed in a year as a full time on-campus student subject to the creditability of the students’ language entrance requirement.

Other than going to CPIT, students have the opportunity to pursue the undergraduate program at some accredited Commonwealth Universities.

**WHO CAN APPLY?**

Anyone who is seeking a successful career in the broad field of information technology. They are expected to be self-motivated, with good interpersonal and academic skills and a commitment to succeed in education.

The minimum entry requirements are either one of the following criteria:
- Minimum completion of secondary education: GCE 'O' Level, SPM or equivalent.
- Mature applicants of 25 years of age with minimum 2 years of working experience.
- Other qualifications will be evaluated on a case-by-case basis.

**English Language Requirements for International Students**

In addition to the above academic criteria, where English is a second language, students will be required to provide evidence of the meeting the following English language entrance requirements:
- IELTS Level 5 for Academic - no lower than 5 in reading, listening, writing and speaking.
- Other English language competency will be evaluated, e.g. TOEFL

**Learning and Teaching Strategies**

The modules are delivered via lectures, PowerPoint presentations, practical workshop laboratories, and individual assistance as required in the workshops.

**Course Assessment Criteria**

Students are assessed based on assignments, projects, test and final semester theory exam.
YEAR 1 MODULES

IT101  Information Technology-Concepts & Tools
- To ground students in fundamental knowledge of business computing and information concepts.
- To provide students with an introduction to microcomputer hardware and commercial software applications.

PR109  Programming Precepts
- Introduces student a range of mathematical ideas that will enhance their problem solving ability in the software development and information technology.

IS101  Information Systems
- Teach students to recognize object-oriented modelling methodologies and to use object-oriented techniques to model various business systems and processes.
- To give students an overview of the relationship between information systems analysis and business strategic planning.

BU103  Professional Communication
- To enable students to communicate professionally in a business-computing environment.

IT151  Multimedia & Internet Technologies
- To provide students with fundamental knowledge in multimedia and the Internet.
- To provide students with the skills and knowledge to develop multimedia productions.

PR101  Introduction to Computer Programming
- To introduce students to programming concepts and prepare them to develop business software.
- To prepare students to carry out Object-Oriented Design: the mapping of an Object-Oriented Analysis onto the implementation features of a specific programming language and produce solutions to stated programming problems.

CS111  Computer Architecture
- To provide students with the fundamental knowledge of the architecture and internal operation of a computer system.

IT241  Web Site Development
- To provide students with the skills needed for designing and developing World Wide Web and Internet sites.

YEAR 2 MODULES

IS201  Alternate Modelling Information Systems Implementation
- To give students an understanding of the principles behind the modelling of systems.
- To enable students to evaluate different life cycle models and gain an understanding of alternative development methodologies.

PR203  Database Management Systems
- To give the students an understanding of the significance of Database Management Systems in business. To ensure that students have the knowledge and experience to use at least two typical database management system applications to solve typical commercial problems.

CS211  Operating Systems Theory
- To provide students with: an understanding of the basic concepts, components and techniques of modern operating systems.

CS221  Applied Operating Systems
- To provide students with: the skills and knowledge tominally configure and administer a typical networked, multi-user, (non-server) multi-tasking workstation.

PM101  Principles of Management
- To develop the student’s understanding of the underpinning systems of organization and management, and the ways these can evolve in progressive organizations.

IS202*  System Design and Implementation
- To provide the student with an understanding of the fundamental elements of project management planning and skills to design robust and usable human/machine interfaces.
- To enable students to develop an awareness of quality assurance methodologies, testing strategies and techniques.
*(Not Applicable for OPTION E)
Students have the options to specialize in one of the following fields for Year Two:

**OPTION A: SOFTWARE APPLICATIONS DEVELOPMENT**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>PR341</td>
<td>Client Side Programming</td>
<td>Research and apply alternative mark-up languages and associated technologies to extend site delivery flexibility. Use client side scripting techniques to enhance site usability.</td>
</tr>
<tr>
<td>PR342</td>
<td>Server Side Web Programming</td>
<td>Design and implement programmatically controlled web based interfaces for Electronic Commerce. Apply and analyse functionality design issues in online commerce.</td>
</tr>
</tbody>
</table>

**OPTION B: MULTIMEDIA APPLICATION DEVELOPMENT**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>IT251</td>
<td>Multimedia Application Development</td>
<td>To give students an understanding of, and experience in multimedia application development.</td>
</tr>
<tr>
<td>IT351</td>
<td>Multimedia Application Development &amp; Management</td>
<td>To complete the application development life cycle and provide students with a MM project management perspective of development. To give students experience in the design and development of MM destined for both on-line and off-line delivery.</td>
</tr>
</tbody>
</table>

**OPTION C: WEB APPLICATIONS & SERVER MANAGEMENT**

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<thead>
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<tbody>
<tr>
<td>CS203</td>
<td>Data Communications and Computer Networks</td>
<td>(Refer to OPTION A)</td>
</tr>
<tr>
<td>CS341</td>
<td>Web Server Administration</td>
<td>To provide students with the skills to install, configure and administer a secure web server and proxy server.</td>
</tr>
</tbody>
</table>

**OPTION D: DATA COMMUNICATIONS AND NETWORKING**

<table>
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<td>Data Communications and Computer Networks</td>
<td>(Refer to OPTION A)</td>
</tr>
<tr>
<td>CS251</td>
<td>Local Area Network - Administration &amp; Management</td>
<td>To develop an understanding of the operation and management of networks and to provide practical experience in administering a modern LAN.</td>
</tr>
<tr>
<td>CS301</td>
<td>Network Technology</td>
<td>To provide students with the principles of Computer Networking Concepts and Technologies.</td>
</tr>
</tbody>
</table>

**OPTION E: E-COMMERCE & MARKETING**

<table>
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<tbody>
<tr>
<td>EM2001</td>
<td>Marketing Operations</td>
<td>Students will be taught to apply modern marketing theories and concepts to real world marketing situations. The module covers key stages in the marketing planning process at an operational level such as conducting marketing audits, formulating objectives and implementing marketing plans and the integration of the marketing mix tools.</td>
</tr>
<tr>
<td>EM2002</td>
<td>Marketing Research &amp; Data Management</td>
<td>Introduces the principles and the key steps involved in the marketing research process such as marketing intelligence activities and research report preparation and communication. Opportunity to learn relevant IT skills for data tabulation, analysis and interpretation is provided.</td>
</tr>
<tr>
<td>EM2003</td>
<td>E-Commerce &amp; Supply Chain Management</td>
<td>Introduces students to issues relating to e-Commerce and supply chain management. Some key topics include examining the fundamentals of conducting e-Commerce transactions; understanding the security, payment systems, copyright and legal matters. Students will learn the principles and competitive strategies of supply chain management; the importance of managing the marketing and supply chain interface; managing the trend towards globalization and developing supply chainrelationships.</td>
</tr>
<tr>
<td>EM2004</td>
<td>The Marketing Customer Interface</td>
<td>Aims to prepare students to understand customer dynamics and the processes of relating to a firm’s customers. Areas of emphasis include managing an organization with a customer-central focus, developing positive customer relationships and understanding the types of customers and their decision-making processes.</td>
</tr>
</tbody>
</table>