If you are a computing degree graduate this diploma will further prepare and enhance your employment opportunities in the IT sector where there are recognised skills shortages in New Zealand and internationally.

The PGDipIT programme has been designed to produce IT post graduates who are able to think critically and have a number of high level skills in the IT field that can be applied in a wide range of situations. This diploma will also introduce you to research in IT.

As a graduate of the Postgraduate Diploma in Information Technology (PGDipIT) you’ll have an understanding of the broad conceptual and theoretical elements involved in the IT arena.

<table>
<thead>
<tr>
<th>Campus</th>
<th>EIT Hawke's Bay</th>
</tr>
</thead>
<tbody>
<tr>
<td>Starts</td>
<td>February, July</td>
</tr>
<tr>
<td>Contact</td>
<td>Ambah Southon Phone: 06 830 1244. Email: <a href="mailto:ambahs@eit.ac.nz">ambahs@eit.ac.nz</a></td>
</tr>
</tbody>
</table>
IT qualifications are in high demand

The Postgraduate Diploma in Information Technology (PGDipIT) is a one year full-time programme with a minimum of 120 credits. It enables students who have completed a computing degree to achieve a postgraduate level qualification in information technology. Students who have completed a degree level qualification in a related area (e.g. business, visual arts, and science) and have appropriate IT work experience in a junior/middle management position, or tertiary graduates who have appropriate work experience in a middle/senior management position, and wish to improve their skills and gain a higher-level qualification may also apply.

The PGDipIT programme has been designed to produce IT graduates who are able to think critically and have a number of high-level skills in the IT field that can be applied in a wide range of situations.

Graduates of the Postgraduate Diploma in Information Technology will have an understanding of the broad conceptual and theoretical elements involved in the information and communications technology area. This includes:

- A sound knowledge of the information technology environment and its effective management;
- The ability to analyse the needs of business and make recommendations for IT services and systems;
- The ability to advise on, develop and implement innovations leading to a more efficient use of resources within a dynamic information technology environment;
- The ability to relate to and communicate effectively with personnel and clients having diverse backgrounds; and,
- The motivation for continued learning and self-development to cope effectively with change.

- An understanding of the legal, regulatory and ethical frameworks of the IT sector.
- A broad understanding of some of the latest approaches, technologies and tools adopted in IT.

If you have any questions please feel free to contact us.

YOUR FUTURE CAREER AND STUDY OPPORTUNITIES

Strategically the postgraduate diploma fits into the following pathways: further study at masters Level (60 credits) or employment in the IT field.

Possible job and career opportunities can include: systems analyst, IT consultant, business analyst, IT infrastructure support analyst, e-commerce advisor, project manager, security analyst, IT manager.

WHAT YOU NEED TO KNOW

Postgraduate Diploma in Information Technology

<table>
<thead>
<tr>
<th>Level</th>
<th>Level 8</th>
</tr>
</thead>
<tbody>
<tr>
<td>Credits</td>
<td>120</td>
</tr>
<tr>
<td>Length</td>
<td>One year full-time or equivalent part-time</td>
</tr>
</tbody>
</table>
| Fee           | Approximately $765 per 15 credit Level 7 course  
                Approximately $1,136 per 15 credit Level 8 course  
                Approximately $2,273 per 30 credit Level 8 course |

This is a guide only based on the previous year. All costs quoted include GST and student services levy. Fees apply to New Zealand citizens and New Zealand permanent residents only.

INDUSTRY-BASED TRAINING

The PGDipIT aims to produce graduates who have industry relevant practical and theoretical skills in this area. The majority of courses include a significant amount industry based project work or case study based work.

KEY DATES

<table>
<thead>
<tr>
<th>INTAKE ONE</th>
<th>INTAKE TWO</th>
</tr>
</thead>
<tbody>
<tr>
<td>Programme starts</td>
<td>Monday, 18 February</td>
</tr>
<tr>
<td>Semester starts</td>
<td>Monday, 22 July</td>
</tr>
<tr>
<td>Semester ends</td>
<td>Friday, 28 June</td>
</tr>
<tr>
<td>Programme ends</td>
<td>Friday, 29 November</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>EIT TERM / SEMESTER HOLIDAYS</th>
</tr>
</thead>
<tbody>
<tr>
<td>15 April - 26 April</td>
</tr>
</tbody>
</table>
ENTRY WITH CREDIT
You may already have some knowledge or skills that can be recognised as part of your intended study. This may take a number of different forms including study at a private training establishment, workplace training, other tertiary study, or life experiences. If you think you may qualify, you may want to apply for Cross Credit or Recognition of Prior Learning.
- Cross Credit is based on the equivalency of courses or qualifications. You would apply for Cross Credit if you have passed a very similar course at the same level.
- Recognition of Prior Learning (RPL) is based on the assessment of your current knowledge and skills. You would apply for RPL if you had gained the relevant knowledge and skills through life experiences and informal learning situations.

You will be asked to provide details of anything that you would like considered as credit toward your intended programme of study, as part of your application.

RPL and Cross Credit cannot be awarded for a course if you are enrolled in that course. You must apply prior to enrolment.

Cross Credits may be granted from other degree programmes, providing they are not part of the entry qualification.

For further information and enquiries about RPL and Cross Credit please contact the School of Computing Secretary, on (06) 830 1244.

ENTRY CRITERIA
A personal interview may be part of the application process.

Applicants must meet one of the following criteria:

STANDARD ENTRY
- A degree in computing at a recognised educational institute or
degree in a related area (e.g. business, visual arts, and science) and appropriate IT work experience in a junior/middle management position.
- Tertiary graduates who have appropriate work experience in a middle/senior management position, and wish to improve their skills and gain a higher level qualification may also apply.

PROVISIONAL ENTRY
- Applicants who do not meet the criteria above, but present evidence of ability to succeed (e.g. maturity, life experience, work experience, other study) or
- Entry to subsequent study is conditional on success at the entry level.

ENGLISH LANGUAGE ENTRY REQUIREMENT
Students are required to have attained an acceptable level of English language fluency. This may be demonstrated in a variety of ways, including successful study in English, approved scores on TOEFL (between 79 and 93) or IELTS (6.5 Academic) tests, completion of accepted international equivalents, or completion of an EIT Hawke’s Bay assessment.

THE EXPERIENCE YOU NEED & THE SUPPORT TO SUCCEED
When you study at EIT you'll get the kind of experiences that will help you gain the knowledge and skills to get ahead.

You’ll also be supported by lecturers and tutors who are here for you, within a learning environment where you are treated as an individual, not just a number. They’ll know your name and you’ll receive one-on-one attention to make sure you get the support to succeed.

PROGRAMME INFORMATION:
To qualify for the PGDipIT, students must have passed the courses (or their equivalent) listed below. The structure of the PGDipIT is summarised in the following table. The courses and their co-requisites and pre-requisites are listed below. All programmes of study must be approved by the programme co-ordinator.

<table>
<thead>
<tr>
<th>LEVEL</th>
<th>7-8</th>
<th>8</th>
<th>TOTAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>CREDITS</td>
<td>45</td>
<td>75</td>
<td>120</td>
</tr>
</tbody>
</table>

SEMESTER 1 AND 2 - 2019
The compulsory course is:
- PGRM8 100 Applied Research Methods (offered both semesters).

Other courses are selected from the level 7 courses available as part of the Bachelor of Computer Systems or from the elective level 8 Postgraduate Diploma in IT courses.

The Level 7 Bachelor of Computing Systems courses offered to students are as follows:

SEMESTER 1 - 2019
- ITAI7 110 - Machine Learning and Artificial Intelligence
- ITDA7 240 - Data Analytics
- ITHW7 238 - Enterprise Support and Infrastructure
- ITIM7 458 - Information Technology Management and Professionalism
- ITPJ7 298 - Project/Internship
- ITPR7 508 - Business Application Programming
- ITSY7 668 - Information Systems Security
- ITWD7 358 - Web Application Programming

SEMESTER 2 - 2019
- ITAI7 110 - Machine Learning and Artificial Intelligence
- ITDA7 240 - Data Analytics
- ITEC7 398 - E-Business Strategies
- ITFM7 120 - Mechatronics in IT
- ITIM7 458 - Information Technology Management and Professionalism
- ITPJ7 298 - Project/Internship
- ITPR7 508 - Business Application Programming
- ITSY7 668 - Information Systems Security
WORLD CLASS 'A' RATED TEACHING STAFF

The Tertiary Education Commission rates EIT as one of New Zealand’s top two institutes of technology and polytechnics for research. Our highly-qualified academics are leaders in their subjects, delivering the most up-to-date and relevant information to certificate, diploma, degree and postgraduate students. Attuned to ever-changing technologies, our tutors bring extensive work experience to teaching EIT’s certificate and other industry-tailored programmes.

Lecturers in the School of Computing bring to their teaching a wide range of practical computing skills together with the appropriate qualifications.

We value our partnership with students and aim to provide quality education in a supportive environment, encouraging personal growth and professional development.

<table>
<thead>
<tr>
<th>NAME</th>
<th>QUALIFICATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr Kathryn MacCallum</td>
<td>PgDipIT and MIT Programme Coordinator, Associate Professor, PhD, BBS(Hons), GradDip E-Bus</td>
</tr>
<tr>
<td>Dr David Skelton</td>
<td>Assistant Head of School, DrSciEd, MIS(Hons)</td>
</tr>
<tr>
<td>Dr Emre Erturk</td>
<td>PhD, MS, BA</td>
</tr>
</tbody>
</table>

SEASONAL 2 - 2019

- ITPG8.200 - Strategic IT Management
- ITPG8.250 - Data Analytics & Visualisation
- ITPG8.350 - Special Topic
- ITPG8.370 - IT Work Integrated Learning
- ITPG8.500 - Enterprise Resource Planning Systems
- ITPG8.800 - Enterprise Content Management
- PGRM8.100 - Research Proposal
- PGRM8.100 - Applied Research Methods

These courses are subject to change please contact the programme secretary for an up to date course list.

ITPG8.350 (Special Topic) and ITPG8.370 (Work Integrated Learning) have special conditions and need approval of the Programme Co-ordinator.

Students intending to enrol in the Master of IT after completing the Postgraduate Diploma in IT are advised to select only level 8 courses and PGRP8.100 to develop your research proposal that you will undertake in your Applied Research Project.

EIT Hawke’s Bay reserves the right to change timetables. Courses may be offered in different timeslots or cancelled if there is insufficient enrolment. Textbooks are required for several courses and the cost for textbooks is not included in the course fee.

The Level 8 Postgraduate Diploma in IT courses are as follows:

SEASONAL 1 - 2019

- ITPG8.100 - Advanced IT Project Management
- ITPG8.350 - Special Topic
- ITPG8.370 - IT Work Integrated Learning
- ITPG8.550 - Cloud Based IT Solutions
- ITPG8.600 - Advanced Mobile and Wireless Technologies
- ITPG8.670 - Information Security in the Enterprise
- PGRP8.100 - Research Proposal
- PGRM8.100 - Applied Research Methods

NAME QUALIFICATION

Dr Kathryn MacCallum | PgDipIT and MIT Programme Coordinator, Associate Professor, PhD, BBS(Hons), GradDip E-Bus |
Dr David Skelton | Assistant Head of School, DrSciEd, MIS(Hons) |
Dr Emre Erturk | PhD, MS, BA |
Dr Thomas Hartley | PhD, BS |
Kim Hagen-Hall | MIT, B Com (MSIS), LLB |
John Jamieson | MIT, B Tech (Info Tech), N Dip IT |
### COURSE DESCRIPTIONS

NB: Courses are offered subject to sufficient enrolments being received.

In the following descriptions:

- **P= Pre-requisite** – courses which must be studied before
- **C= Co-requisite** – courses which can be studied before or at the same time

The courses we are offering for the PGDipIT programme are as follows:

<table>
<thead>
<tr>
<th>LEVEL 7</th>
<th>COURSE NO.</th>
<th>BRIEF DESCRIPTION</th>
<th>NO. OF CREDITS</th>
<th>NZQA LEVEL</th>
<th>SEMESTER OFFERED</th>
</tr>
</thead>
<tbody>
<tr>
<td>ITDB7.200</td>
<td>Machine Learning and Artificial Intelligence</td>
<td>To provide students with the knowledge and skills to apply machine learning and artificial intelligence theories and technologies to solve real-world problems. P. ITAE6.100 Automation and Embedded System ITHW6.238 Electronics and IoT T</td>
<td>15</td>
<td>7</td>
<td>1 &amp; 2</td>
</tr>
<tr>
<td>ITDA7.240</td>
<td>Data Analytics</td>
<td>To provide students with the knowledge and skills to use industry standard data analysis tools and techniques and present meaningful and useful information. P. JTPS 110 Programming Fundamentals JTDTS.228 Introduction to data concepts ITDB6.208 Database Management Systems ITMA6.240 Maths in IT</td>
<td>15</td>
<td>7</td>
<td>1 &amp; 2</td>
</tr>
<tr>
<td>ITDB7.208</td>
<td>Database Administration</td>
<td>To allow students to develop knowledge and skills in both the technical and managerial aspects of Database Administration. P. ITDB6.208 Database Management Systems</td>
<td>15</td>
<td>7</td>
<td>(as required)</td>
</tr>
<tr>
<td>ITEC7.398</td>
<td>E-Business Strategies</td>
<td>To provide students with the knowledge and skills to evaluate and analyse the drivers of successful e-business strategies for organisations. P. ITEC6.398 E-Commerce</td>
<td>15</td>
<td>7</td>
<td>2</td>
</tr>
<tr>
<td>ITFM7.120</td>
<td>Mechatronics in IT</td>
<td>To provide students with knowledge and skills of feedback control, electro-mechanical system interfaces, software and electronics that enable robotics. P. ITAE6.100 Automation and Embedded System ITHW6.238 Electronics and IoT T</td>
<td>15</td>
<td>7</td>
<td>1</td>
</tr>
<tr>
<td>ITHW7.238</td>
<td>Enterprise Support and Infrastructure</td>
<td>To provide students with knowledge and practical experience in the emerging digital technologies within the educational and training environment. P. ITET6.238 Electronics and Technology in IT ITDC6.218 Data Communications and Networking</td>
<td>15</td>
<td>7</td>
<td>1</td>
</tr>
<tr>
<td>ITIM7.458</td>
<td>Management and Professionalism</td>
<td>To allow students to develop the knowledge and skills necessary to analyse organisations and make informed IT management decisions while applying the professionalism and ethical behaviour expected of IT Professionals. P. ITSS5.450 Information Systems ITSD6.348 Systems Analysis ITSD6.349 Systems Design</td>
<td>15</td>
<td>7</td>
<td>1&amp;2</td>
</tr>
<tr>
<td>ITOS7.608</td>
<td>Advanced Cloud Infrastructure</td>
<td>To provide students with the knowledge and skills of technologies and practices that support modern containerisation and cloud infrastructures. P. ITOS6.608 Operating Systems ITDC6.218 Data Communications and Networking</td>
<td>15</td>
<td>7</td>
<td>(as required)</td>
</tr>
<tr>
<td>COURSE NO.</td>
<td>BRIEF DESCRIPTION</td>
<td>NO. OF CREDITS</td>
<td>NZQA LEVEL</td>
<td>SEMESTER OFFERED</td>
<td></td>
</tr>
<tr>
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<td>---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------</td>
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</tr>
</tbody>
</table>
| ITPJ7.298 | Final Project Internship  
To provide students with the opportunity to apply the knowledge and skills gained during their computing studies in a business environment.  
P: ITPM6.318 Project Management  
ITSD6.348 Systems Analysis  
ITSD6.349 Systems Design  
Each project/internship/case study proposal will be considered by a sub-committee of the Programme Committee, and will only be approved if the student has completed courses that are considered to be an appropriate preparation for the specific project/internship. | 45             | 7            | 1 & 2           |
| ITPR7.508 | Business Application Programming  
To provide students with the knowledge and skills to develop a business application from a specification.  
P: ITPR5.518 Introduction to Object Oriented Programming  
ITPR6.508 Advanced Object Oriented Programming  
ITWD6.408 Advanced Internet and Web Page Development | 15             | 7            | 1 & 2           |
| ITST7.408 | Special Topic in IT  
To provide the students with the knowledge and skills to undertake an in-depth focussed investigation into aspects of a chosen Information Technology domain | 15             | 7            | (as required)   |
| ITSY7.668 | Information Systems Security  
To provide students with the knowledge and skills to apply information systems security/forensics concepts, identify security risks and make contingency plans and policies.  
P: ITDC6.218 Data Communications & Networking | 15             | 7            | 1 & 2           |
| ITWD7.358 | Web Application Development  
To provide students with the knowledge and skills to develop client-server web-based applications.  
P: ITPR5.518 Introduction to Object Oriented Programming  
ITMS5.238 Internet and Mobile Technology  
ITWD6.408 Advanced Internet and Web Page Development | 15             | 7            | 2               |

<table>
<thead>
<tr>
<th>COURSE NO.</th>
<th>BRIEF DESCRIPTION</th>
<th>NO. OF CREDITS</th>
<th>NZQA LEVEL</th>
<th>SEMESTER OFFERED</th>
</tr>
</thead>
</table>
| ITPG8.100 | Advanced IT Project Management  
To provide students with an understanding of the strengths and weaknesses of a range of alternative project management methodologies, and apply a methodology to a real world project scenario. | 15             | 8            | 1               |
| ITPG8.200 | Strategic IT Management  
To provide students with an understanding of the strategic issues facing IT managers as they manage an IT services department in a medium to large size organisation and apply a range of techniques to create and design an IT strategy. | 15             | 8            | 2               |
| ITPG8.250 | Data Analytics and Visualisation  
To provide students with expertise in data analytics and data wrangling for effective data-driven decision making and data visualization. | 15             | 8            | 2               |
| ITPG8.350 | Special Topic  
To provide students with an opportunity to develop research and problem solving skills which are relevant to the Information Technology (IT) industry.  
Needs special approval from the Programme Coordinator.  
P: PGRM8.100 Applied Research Methods | 15             | 8            | 1 & 2           |
| ITPG8.370 | IT Work Integrated Learning  
This course provides students with experience in an applied information technology work environment and provides an opportunity to develop attributes relating to work place professional behaviours. The work placement provides an opportunity for students to extend and deepen their IT knowledge, building on the skills attained during their undergraduate degree. Students are required to reflect on theoretical approaches to IT work by identifying IT issues within a workplace and making recommendations which address those issues.  
P: Students must have completed at least 60 credits of post graduate study. | 15             | 8            | 1 & 2           |
<table>
<thead>
<tr>
<th>COURSE NO.</th>
<th>BRIEF DESCRIPTION</th>
<th>NO. OF CREDITS</th>
<th>NZQA LEVEL</th>
<th>SEMESTER OFFERED</th>
</tr>
</thead>
</table>
| ITPG8.400  | Impact of Computing on Society  
To encourage students to critically evaluate the impact of computing on society and understand how to address the issues that IT professionals face as a consequence of technology advances. | 15 | 8 | As required |
| ITPG8.450  | Virtualisation Management  
To provide students with a systematic and coherent account of the management aspects of virtualisation. The course investigates the concepts behind virtualisation technology, the different categories of virtualisation, and how they are used within a medium to large business organization.  
P: Relevant IT Management degree level courses and/or appropriate work experience. | 15 | 8 | As required |
| ITPG8.500  | Enterprise Resource Planning Systems  
To provide students with an understanding of the issues concerning the adoption of a cross-functional integrated computer-based information systems approach to the provision of IT applications within a medium to large business organisation. | 15 | 8 | 2 |
| ITPG8.550  | Cloud Based IT Solutions  
To enable students to understand the management issues surrounding the adoption of cloud based computing solutions and be able to assess the merits of a cloud based IT solution for a given IT environment. | 15 | 8 | 1 |
| ITPG8.600  | Advanced Mobile and Wireless Technologies  
To provide students with an understanding of the issues concerning the adoption of mobile and wireless technologies and the skills necessary to be able to make informed decisions when identifying the mobile or wireless technology best suited to a given purpose. | 15 | 8 | 1 |
| ITPG8.650  | IT Forensics  
To provide students with an opportunity to develop advanced knowledge and skills in the nature and use of forensics information technology. | 15 | 8 | As required |
| ITPG8.670  | Information Security in the Enterprise  
To provide students with an opportunity to develop advanced knowledge of the information security domain and advanced skills to facilitate the design, installation and management of enterprise level information security. | 15 | 8 | 1 |
| ITPG8.700  | Mobile Software Architectures  
To provide students with an understanding of the key principles associated with mobile application development and software engineering and be able to apply these principles when designing and deploying an application to meet a specific business need. | 15 | 8 | As required |
| ITPG8.800  | Enterprise Content Management  
To provide students with an understanding of the concepts and technologies involved in enterprise content management and provide them with the skills that will allow them to evaluate enterprise content management strategies for specific business cases. | 15 | 8 | 2 |
| ITPG8.900  | Advanced Digital Learning Technologies  
To provide students with an understanding of the issues surrounding the adoption of emerging digital technologies in the educational and training environment and be able to apply these principles when using the technologies to meet a specific training need. | 15 | 8 | As required |
| PGRM8.100  | Applied Research Methods (Compulsory)  
This course is a study of the principal approaches to descriptive, causal and critical research. The course examines a range of applied qualitative, quantitative and mixed methods research techniques relevant to a broad range of applied research contexts. | 15 | 8 | 1 & 2 |
| PGRP8.100  | Research Proposal  
The aim of the course is to develop students’ ability to identify a research problem and to develop a research proposal to answer research questions related to the research problem.  
P: PGRM8.100 Applied Research Methods | 15 | 8 | 1 & 2 |
SCHOLARSHIPS AND GRANTS

Scholarships and grants make life easier by helping to cover your fees, other costs and living expenses while you study. You don’t always need to be an academic high-flyer to qualify.

EIT has a long list of scholarships for which you can apply. So if you would like to get financial help with your study, take a look at our website to see what’s available. You can also take a look online at the givME database available at EIT. It lists every scholarship and grant available in New Zealand.

STUDENT SERVICES LEVY

The Student Services Levy is a compulsory non-tuition fee that is charged to students enrolled at EIT. The levy is to contribute to the provision of quality student services that support learning. The funds received by EIT from the levy are ring-fenced, meaning they can only be spent on student services.

STUDENT LOANS AND ALLOWANCES

StudyLink is a service of the Ministry of Social Development. Apply well before your programme begins (even if you haven’t been accepted yet) so you’ll be ready to get your payments when you need them most. Check out studylink.govt.nz or phone 0800 88 99 00. A Student Allowance is a weekly payment to help you with living expenses. It doesn’t have to be paid back. A Student Loan is made up of three parts – compulsory fees, course-related costs and living costs. You have to pay these back.

THE EXPERIENCE YOU NEED & THE SUPPORT TO SUCCEED