

2024



# Graduate Diploma in Information Technology

## Level 7

Gain advanced technical skills and insight to meet the challenging demands of Information Technology in the workplace.

Your new skills will augment an existing qualification from another field and put you in good stead for advancement within your current or future workplace.

You must have a bachelor degree or equivalent qualification.

Location	Hawke's Bay
Start	February and July
Length	One year full-time*
Contact	Amandeep Kaur Phone: 06 830 1203 Email: <a href="mailto:akaur@eit.ac.nz">akaur@eit.ac.nz</a>

\* Part-time study available.

For NZ Citizens and Permanent Residents



TE AHO A MĀUI



Te Pūkenga

# IT qualifications are in high demand

The Graduate Diploma in Information Technology (GradDipIT) is a Level 7, one year, full-time programme of 120 credits. It enables those who have already completed a Bachelor degree to achieve a graduate level qualification in Information Technology.

The GradDipIT programme has been designed to enable graduates from other disciplines to pursue a career in the computing industry.

In particular, the programme is designed to provide you with:

- A sound knowledge of the Information Technology sector and the effective management of IT resources.
- The ability to analyse the needs of business and to make recommendations for IT services and systems.
- The ability to develop and implement innovations leading to a more efficient use of resources.
- The ability to relate and effectively communicate with all personnel and stakeholders.
- The motivation for continued learning and self-development to cope effectively with change.
- An understanding of the regulatory and ethical frameworks of the IT sector.

In this application pack you will find information about this programme, descriptions for each of the subjects covered, and related fees and costs.

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

## Career and study opportunities

The Graduate Diploma in Information Technology fits into the following pathways:

- Employment in the IT field
- Postgraduate or Masters study at EIT | Te Pūkenga or a University

Possible job and career opportunities can include:

- Systems Analyst
- Web Developer
- Business Analyst
- IT Infrastructure Support
- E-Commerce Advisor
- Project Management

## Industry-based training

The GradDipIT aims to produce graduates who have specialised practical and theoretical skills. The majority of courses have a significant practical component.


## Partnerships


EIT | Te Pūkenga is proud of our relationships with local IT providers and employers which ensures the continuing relevance of our courses and leverages our qualifications and resources for the benefit of learners, employers and the region.



## Graduate Diploma in Information Technology Level 7, 120 credits

 Hawke's Bay and Tairāwhiti

 Full-time: 1 year  
Part-time: equivalent

 Fee:  
Visit [fees.eit.ac.nz](https://fees.eit.ac.nz) to see the fees for this programme

### Timetable

Your study time will be made up of contact time (class times, tutorials, industry-based learning) and non-contact time (your own individual study time, online learning).

#### Contact time

On-campus classes are usually scheduled between 8.00am-5.00pm, Monday to Friday.

#### Non-contact time

You will need to supplement scheduled class teaching time with individual study, and should allow for a total of 10 hours per course per week. A full-time course load would be FOUR 15-credit courses per semester.

### Additional costs

- \$120 approximately, per course, for textbooks, stationery and/or course related costs.
- You are advised to purchase suitable equipment to sustain studies in the computer field, and BYOD is encouraged for use in class, though workstations are supplied for all laboratory work.

### Entry requirements

A personal interview is available as part of the application process.

#### Standard entry

Applicants must meet one of the following criteria:

- Bachelor's degree at a recognised educational institute; or
- Equivalent qualification; and
- Applicants are required to provide evidence of knowledge and skills in:
  - Data storage and data manipulation, and
  - Microsoft Office applications

Applicants may be required to undertake preparatory study to meet the requirements for entry to specific courses.

#### 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).

Note: entry to subsequent study is conditional on successful academic progress.

## 2024 Key Dates

Intake one Starts: Monday, 19 February  
Ends: Friday, 29 November

Intake two Starts: Monday, 22 July  
Ends: Friday, 27 June 2025

Semester breaks 15-26 April  
1-19 July  
30 September-11 October

### English language entry requirements

Applicants whose first language is not English must have an acceptable level of English language fluency prior to enrolment in the programme. This may be demonstrated in a variety of ways, including schooling in New Zealand, completion of the relevant New Zealand Certificate in English Language, approved scores on IELTS tests, or completion of accepted international equivalents. Specific scores for IELTS and New Zealand Certificates in English Language are as follows:

- IELTS 6.0 Academic (no band score lower than 5.5)
- NZCEL Level 4 with an Academic endorsement

For acceptable alternatives refer to the English Proficiency Outcomes Chart.

### 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 while at high school, study at a private training establishment, workplace training, other tertiary study, life experiences or voluntary work. If you think you may qualify, you may want to apply for Cross Credit (CC) or Recognition of Prior Learning (RPL).

- CC is based on the equivalency of courses or qualifications. You would apply for CC if you have passed a very similar course at the same level.
- 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.

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

**You must apply prior to enrolment.** Note that CC and RPL cannot be awarded for a course which you are already enrolled in.

CCs may be granted from other degree programmes and from sub-degree programmes such as the NZ Diploma in Information Systems (Level 5).

For further information and enquiries about CC and RPL please contact the Programme Administrator, on 06 830 1203.

If you intend to enrol in the GradDipIT as a full-time learner, and you have been granted a CC or RPL, you may need to enrol in additional courses to qualify for StudyLink allowances.



## Assessments

All assessments for the GradDipIT are marked internally. Assessments include assignments, tests, practical demonstrations, and projects. Assessment is continuous throughout the year.

## Facilities

Modern lecture theatres and classrooms. The School of Computing is based in the purpose-built three story Information Technology building, and includes a 50-seat lecture theatre, and nine fully networked computer laboratories using 24 or 30 learner workstation configurations, particularly suited to software, hardware, or project-based or media studies. All rooms are environmentally controlled, and include multimedia presentation and teaching equipment.

## EIT is now part of Te Pūkenga

Te Pūkenga brings together New Zealand's Institutes of Technology, Polytechnics, and Industry Training Organisations to build a network of on job, on-campus and online learning.

## Experienced lecturers

At EIT | Te Pūkenga, you can be confident in the quality of our teaching and your learning experience.

EIT | Te Pūkenga is highly regarded in New Zealand for research excellence due to the quality of our community centred research, our publications and our external grant income provided by funding institutions who have confidence in our research capability. You can be confident your lecturers use the latest knowledge and research in their field of expertise to inform their teaching, and many are at the forefront of knowledge creation within their discipline area.

Our lecturers are highly trained professionals with particular areas of expertise in information systems. Staff also maintain contact with other professionals through organisations such as the Institute of Information Technology Professionals.

The services we offer not only remain, they are strengthened by being part of the extensive Te Pūkenga network around the country. Your enrolment for study in 2024 will see you enrolling with Te Pūkenga and becoming part of the extensive Te Pūkenga network around the country.

## The experience you need & the support to succeed

When you study at EIT | Te Pūkenga 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.

Name	Qualification
Dr Daniel Dang	PhD
Dr Emre Erturk	PhD, MS, BA
Dr Noor Alani	PhD
Graham Ward	PGDipIT (in progress)
Ian Purdon	BBS (Econ), DipBus (IS), PGDipIT
Istvan Lengyel	MIT, PgDipSc
John Jamieson	MIT, BTech (Info Tech), NDipIT
Karam Khokra	MSc, MIT (CompEng), BSc, NZCertAdTT
Robyn Pascoe	BCS, DipBC



## Programme information

To qualify for the GradDipIT, learners must have passed 120 credits from the courses (or their equivalent) listed below, with at least 75 credits at Level 7 or above. The structure of the diploma is summarised in the following table. The courses and their co-requisites and pre-requisites are appended. All programmes of study must be approved by the Programme Coordinator.

These courses are subject to change, please contact the Programme Administrator for an up to date course list.

Level	5-7	7	Total
Credits	45	75	120

## Course descriptions

NB: Courses are offered subject to sufficient enrolments being received. In the following descriptions:

In the following descriptions: Pre-requisite = courses which must be studied before.  
Co-requisite = courses which can be studied before or at the same time.

The courses we are offering for the GradDipIT programme in 2024 are as follows:

### Level 5 courses

Course no.	Brief description	NZQA level	No. of credits	Semester offered
ITIS5.450	<b>Information Systems</b> To provide learners with an economic and organisational context and the skills to identify requirements and suitable solutions in the application of Information Technologies and Systems.	5	15	1
ITUX5.210	<b>UX and UI Fundamentals</b> To equip learners with knowledge and skills to elicit requirements for human-computer interfaces, and to design, prototype, and evaluate user experiences and interface designs.	5	15	1
ITDT5.228	<b>Introduction to Data Concepts</b> To provide learners with fundamental knowledge and skills of the data concepts central to all Information Systems.	5	15	1
ITPM5.240	<b>Agile Projects</b> To provide learners with fundamental project management concepts and skills used in an IT context.	5	15	1
ITPF5.110	<b>Programming Fundamentals</b> To provide learners with the core knowledge and skills, using software development tools to create a working application to meet given requirements.	5	15	2
ITWD5.130	<b>Website Development</b> To provide learners with the knowledge and skills to create a static website which meets a specific client brief.	5	15	2
ITCS5.100	<b>Computer Systems Architecture</b> This course provides learners with the knowledge and skills required to successfully plan, construct, and maintain, a modern PC-based computer system, with emphasis placed on safe and effective industry practices.	5	15	2
ITCT5.120	<b>IT Concepts And Tools</b> To provide learners with the knowledge and skills of IT tools and concepts used within organisations, and their impact on business and professional communication practices.	5	15	2

### Level 6 courses

Course no.	Brief description	NZQA level	No. of credits	Semester offered
ITPM6.318	<b>Project Management</b> To provide learners with the knowledge and skills of formal project methodologies, using best-practice project management frameworks and techniques to select, plan, execute and control projects to successful conclusion.	6	15	1

Course no.	Brief description	NZQA level	No. of credits	Semester offered
ITSD6.348	<p><b>Systems Analysis</b></p> <p>To provide learners with the knowledge and skills to analyse complex information systems, identify problems and requirements and document and model these findings using appropriate methods, tools and diagrams.</p> <p><i>Pre-requisite: ITIS5.540 Information Systems ITDT5.228 Introduction to Data Concepts</i></p>	6	15	1
ITSD6.349	<p><b>Systems Design</b></p> <p>To provide learners with the knowledge and skills to design information systems solutions, using appropriate modelling, prototyping and documentation tools and methods.</p> <p><i>Pre-requisite: ITSD6.348 Systems Analysis</i></p>	6	15	1
ITPR6.508	<p><b>Advanced Object-Oriented Programming</b></p> <p>To provide learners with the knowledge and skills to design and develop software using all the facilities of an object-oriented programming language, and object-oriented design modelling and concepts.</p> <p><i>Pre-requisite: ITPF5.110 Programming Fundamentals</i></p>	6	15	1
ITHW6.238	<p><b>Electronics and Internet of Things Technology</b></p> <p>To provide learners with appropriate knowledge of electronics and technical skills required to work with in a computing hardware in an IoT setting.</p> <p><i>Pre-requisite: ITCS5.100 Computer System Architecture</i></p>	6	15	1
ITPR6.358	<p><b>User Experience and User Interfaces</b></p> <p>To provide learners with knowledge and skills of industry based theory and methods for the design and development of successful user interfaces, user experience (UX), and prototyping.</p>	6	15	1
ITDF6.100	<p><b>Digital Forensics Fundamentals</b></p> <p>To equip learners with the knowledge and skills to use appropriate computer forensics tools and techniques to contribute towards diagnostics and evidence gathering.</p> <p><i>Pre-requisite: ITSD6.348 Systems Analysis</i></p>	6	15	1
ITPR6.518	<p><b>Enterprise Software Development</b></p> <p>To provide learners with the knowledge and skills to design, develop, maintain and deploy software to support enterprise systems.</p> <p><i>Pre-requisite: ITPR6.508 Advanced Object-Oriented Programming</i></p>	6	15	2
ITDB6.208	<p><b>Database Management Systems</b></p> <p>To provide learners with the knowledge and skills to apply the principles of database design and management using database software, to create and implement a database using standard database tools.</p> <p><i>Pre-requisite: ITDT5.228 Introduction to Data Concepts</i></p>	6	15	2
ITOS6.608	<p><b>Operating Systems</b></p> <p>To provide the learners with a general understanding of a modern operating system and the necessary skills to install and carry out various administrative tasks.</p> <p><i>Pre-requisite: ITCS5.100 Computer System Architecture</i></p>	6	15	2
ITAE6.100	<p><b>Automation and Embedded Systems</b></p> <p>To introduce learners to the theory and application of industrial automation ,with focus on how to build solutions to real-world problems using embedded systems.</p> <p><i>Pre-requisite: ITCS5.100 Computer System Architecture Co-requisite: ITHW6.238 Electronics and IoT</i></p>	6	15	2
ITMA6.240	<p><b>Maths in Information Technology</b></p> <p>To provide learners with relevant mathematics theory and skills for use in general and applied IT.</p> <p><i>Pre-requisite: ITDT5.228 Introduction to Data Concepts</i></p>	6	15	2

Course no.	Brief description	NZQA level	No. of credits	Semester offered
ITKM6.398	<p><b>Knowledge Management</b></p> <p>To provide learners with the theory, tools and skills to retain and use institutional knowledge and the practical strategies to implement KM programmes into the workplace.</p> <p><i>Pre-requisite: ITIS5.450 Information Systems</i></p>	6	15	2
ITWD6.408	<p><b>Advanced Internet and Web Page Development</b></p> <p>To provide learners with the knowledge and skills of client-side web development and website management.</p> <p><i>Pre-requisite: ITWD5.130 Website Development</i></p>	6	15	2
ITDC6.218	<p><b>Data Communications and Networking</b></p> <p>To equip learners with practical skills in switched networking environments. Learners will apply knowledge from Level 5 Computer System Architecture to design and implement networks using modern data communications tools and equipment.</p> <p><i>Pre-requisite: ITCS5.100 Computer System Architecture</i></p>	6	15	2
ITNA6.258	<p><b>Advanced Network and the Cloud</b></p> <p>To provide learners with general knowledge of a Network Operating System, and the necessary skills to install and carry out various administrative tasks.</p> <p><i>Pre-requisite: ITCS5.100 Computer System Architecture</i> <i>Co-requisite: ITDC6.218 Data Communications and Networking</i></p>	6	15	2





## Level 7 courses

Course no.	Brief description	NZQA level	No. of credits	Semester offered
ITST7.408	<b>Special Topic</b>	7	15	1 and 2
ITSY7.668	<p><b>Cybersecurity</b></p> <p>To provide learners with the knowledge and skills to apply information systems security/forensics concepts, identify security risks, and derive contingency plans and policies.</p> <p><i>Pre-requisite: ITDC6.218 Data Communications and Networking</i></p>	7	15	1
ITDA7.240	<p><b>Data Analytics</b></p> <p>To provide learners with knowledge and skills to use industry standard data analysis tools and techniques to derive and present meaningful and useful information.</p> <p><i>Pre-requisite: ITPF5.110 Programming Fundamentals ITDT5.228 Introduction to Data Concepts ITDB6.208 Database Management Systems ITMA6.240 Maths in IT</i></p>	7	15	1
ITGA7.100	<p><b>GIS Analytics</b></p> <p>To provide learners with knowledge and skills to use appropriate GIS analytics tools and techniques to present meaningful and useful GIS information.</p> <p><i>Pre-requisite: ITDB6.208 Database Management Systems</i></p>	7	15	1
ITPR7.508	<p><b>Business Application Programming</b></p> <p>To provide learners with knowledge and skills to develop a business application from a specification.</p> <p><i>Pre-requisite: ITPR5.518 Introduction to Object-Oriented Programming ITPR6.508 Advanced Object-Oriented Programming ITWD6.408 Advanced Internet and Web Page Development</i></p>	7	15	1
ITWD7.358	<p><b>Web Application Programming</b></p> <p>To provide learners with the knowledge and skills to develop client-server web-based application.</p> <p><i>Pre-requisite: ITPR5.518 Introduction to Object-Oriented Programming ITIM5.238 Internet and Mobile Technology ITWD6.408 Advanced Internet and Web Page Development</i></p>	7	15	
ITEC7.398	<p><b>E- Business Strategies</b></p> <p>To provide learners with the knowledge and skills to evaluate and analyse the drivers of successful e-business strategies for organisations.</p> <p><i>Pre-requisite: ITKM6.398 Knowledge Management</i></p>	7	15	2
ITHW7.238	<p><b>Enterprise Support and Infrastructure</b></p> <p>To provide learners with the technical knowledge and skills to plan, prepare, and manage, a range of enterprise technologies, configurations, and infrastructure.</p> <p><i>Pre-requisite: ITET6.238 Electronics and Technology in IT ITDC6.218 Data Communications and Networking</i></p>	7	15	2
ITAI7.110	<p><b>Machine Learning and Artificial Intelligence</b></p> <p>To provide learners with the knowledge and skills to apply machine learning and artificial intelligence theories and technologies to solve real-world problems.</p> <p><i>Pre-requisite: ITAE6.100 Automation and Embedded System ITHW6.238 Electronics and IoT</i></p>	7	15	2
ITFM7.120	<p><b>Mechatronics in IT</b></p> <p>To provide learners with knowledge and skills of feedback control, electro-mechanical system interfaces, and the software and electronics that enable robotics.</p> <p><i>Pre-requisite: ITAE6.100 Automation and Embedded System ITHW6.238 Electronics and IoT</i></p> <p><i>Co-requisite: ITAI7.110 Machine Learning and Artificial Intelligence</i></p>	7	15	2



# How to enrol

There is an easy 3-step process to follow when enrolling at EIT | Te Pūkenga.

## Step 1

Check out [eit.ac.nz](http://eit.ac.nz) to see the programmes available for you to study. A copy of the course information for each programme is available on our website.

## Step 2

You can now use your RealMe verified identity to apply for study at EIT | Te Pūkenga. If you use your RealMe verified identity you will no longer be sent a copy of your application form to sign. You also will not need to provide us with a copy of your primary ID.

If you apply online without using RealMe then you will be sent a summary of your enrolment to check and sign. It will also include course selection forms which you need to complete and return. Your enrolment cannot progress until you have sent the summary and forms back to us.

You can also apply using a paper enrolment form. Please call us on 0800 22 55 348 and we will send you one out.

You will receive an acceptance letter from your Faculty with programme information. This will include the start date of your study and any special information regarding your programme. Depending on your chosen programme of study, you may be invited to attend an interview before you are accepted.

## Step 3

Arrangement for full payment of enrolment fees must be made before the start of your programme. You will receive an invoice with payment details.

**Fees-free government scheme:** Tertiary education is fees-free for eligible domestic tertiary students. To check if you are eligible, go to [FeesFree.govt.nz](http://FeesFree.govt.nz) and enter your National Student Number (NSN). If you are not eligible you will be responsible for paying your fees.

**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. You can find out more about scholarships and other options for paying your fees at [eit.ac.nz](http://eit.ac.nz).

**StudyLink:** If you need to pay for your own study you can choose to apply for your Student Loan and Student Allowance with StudyLink. You should do this early, even if you haven't yet been accepted on your programme. You can change your details later if anything changes. Visit [studylink.govt.nz](http://studylink.govt.nz) to find out more about StudyLink.

## Student services levy

The student services levy is a compulsory non-tuition fee that is charged to students enrolled at EIT | Te Pūkenga. The levy is to contribute to the provision of quality student services that support learning. The funds received by EIT | Te Pūkenga 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 what you qualify for at [studylink.govt.nz](http://studylink.govt.nz).



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