

For NZ Citizens and  
Permanent Residents



# Graduate Diploma in Information Technology [Level 7]

The Graduate Diploma in Information Technology is designed to provide you with advanced IT skills ready for immediate application in the workplace.

You will gain valuable technical skills and the necessary insights to be able to adapt to technological change, and meet the challenging demands of working in the IT industry. Your new skills will enhance your existing qualification and stand you in good stead for the workplace of the future, including intelligent systems courses such as the Internet of Things.

The programme develops a range of professional skills, including the ability to advise, develop and implement IT innovations, leading to the efficient and strategic use of resources in dynamic organisational and economic contexts.

Campus	EIT Hawke's Bay
Starts	February and July
Length	One year full-time or equivalent part-time
Contact	Aman Kaur   Phone: 06 830 1203   Email: akaur@eit.ac.nz

EASTERN INSTITUTE OF TECHNOLOGY

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Te Aho a Māui





# IT qualifications are in high demand

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

The GradDiplIT 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.

## YOUR FUTURE STUDY AND CAREER OPPORTUNITIES

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

- ▶ Employment in the IT field
- ▶ Postgraduate or Masters study at EIT or other tertiary institutes and universities

Possible job and career opportunities can include:

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

## WHAT YOU NEED TO KNOW

### Graduate Diploma in Information Technology

Level	Level 7	Credits	120
Length	One year full-time or equivalent part-time	Fee*	\$800 approximately per 15 credit 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 GradDiplIT aims to produce graduates who have specialised practical and theoretical skills. The majority of courses have a significant practical component.

## PARTNERSHIPS

EIT 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 students, employers and the region.



## 2022 KEY DATES

### INTAKE ONE

Programme starts Monday, 14 February

### INTAKE TWO

Programme starts Monday, 18 July

### EIT TERM HOLIDAYS

15 - 29 April

27 June - 15 July

3 - 14 October

### YEAR ENDS

Friday, 25 November

## 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 8.30am - 5.00pm, Monday to Friday.

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

- ▶ \$240 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 CRITERIA

A personal interview may be part of the application process.

Applicants must meet one of the following criteria:

### Standard Entry

- ▶ A 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.

### 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.

## ENGLISH LANGUAGE ENTRY REQUIREMENT

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.

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

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 School of Computing Secretary, on 06 830 1203.

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

## 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 student 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.

## ASSESSMENTS

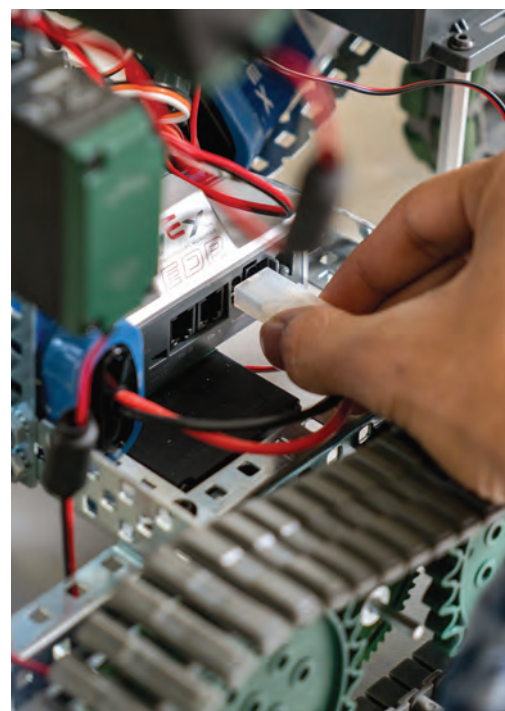
All assessments for the GradDiplIT are marked internally. Assessments include assignments, tests, practical demonstrations, and projects.

Assessment is continuous throughout the semester.

## 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.



## EXPERIENCED LECTURERS

You can be confident in the quality of our teaching and your learning experience at EIT.

EIT is one of the top ITPs in New Zealand for research excellence due to the quality of our community centred research, and associated publications and level of government and external grant income. This means that 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.

NAME	QUALIFICATION	NAME	QUALIFICATION
John West Head of School		Istvan Lengyel	MIT, PgDipSc
Ian Purdon BCS Programme Coordinator	BBS (Econ), DipBus (IS), PGDipIT	Dr Emre Erturk	PhD, MS, BA
Dr Thomas Hartley	PhD, ThD, NZCertAdLitNu	Dr Daniel Dang	PhD
John Jamieson	MIT, BTech (Info Tech), NDipIT	Robyn Pascoe	BCS, DipBC
Oliver Huang	MBA, GDipIT, BCS	Graham Ward	PGDipIT (in progress)
		Dr Noor Alani	PhD

## PROGRAMME INFORMATION

To qualify for the GradDipIT, students 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 Secretary 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:

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 GradDipIT programme in 2022 are as follows:

COURSE NO.	LEVEL 5 BRIEF DESCRIPTION	NO. OF CREDITS	NZQA LEVEL	SEMESTER OFFERED
ITIS5.450	<b>Information Systems</b> To provide students with an economic and organisational context and the skills to identify requirements and suitable solutions in the application of Information Technologies and Systems.	15	5	1
ITUX5.210	<b>UX and UI Fundamentals</b> To equip students with knowledge and skills to elicit requirements for human-computer interfaces, and to design, prototype, and evaluate user experiences and interface designs.	15	5	1
ITDT5.220	<b>Introduction to Data Concepts</b> To provide students with fundamental knowledge and skills of the data concepts central to all Information Systems.	15	5	1
ITPM5.240	<b>Agile Projects</b> To provide students with fundamental project management concepts and skills experienced in an IT context.	15	5	1
ITPF5.110	<b>Programming Fundamentals</b> To provide students with the core knowledge and skills to use software development tools to create a working application to meet given requirements.	15	5	2
ITWD5.130	<b>Website Development</b> To provide students with the knowledge and skills to create a static website that meets a specific client brief.	15	5	2

COURSE NO.	LEVEL 5 BRIEF DESCRIPTION	NO. OF CREDITS	NZQA LEVEL	SEMESTER OFFERED
ITCS5.100	<b>Computer Systems Architecture</b> This course provides students with the knowledge and skills required to successfully plan, construct, optimise and maintain a modern PC-based computer system, with emphasis placed on safe and effective industry practices.	15	5	2
ITCT5.120	<b>IT Concepts And Tools</b> To provide students with the knowledge and skills of IT tools and concepts used within organisations and their impact on business and professional communication practices.	15	5	2

COURSE NO.	LEVEL 6 BRIEF DESCRIPTION	NO. OF CREDITS	NZQA LEVEL	SEMESTER OFFERED
ITPM6.318	<b>Project Management</b> To provide students with the knowledge and skills in formal project methodologies in business and IT and the applications of best-practice project management frameworks and techniques to select, plan, execute and control projects to successful conclusion.	15	6	1
ITSD6.348	<b>Systems Analysis</b> To provide students with the knowledge and skills to analyse complex information systems, identify problems and requirements as well as document and model these findings using appropriate methods, tools and diagrams. <i>P: ITIS5.540 Information Systems ITDT5.228 Introduction to Data Concepts</i>	15	6	1
ITSD6.349	<b>Systems Design</b> To provide students with the knowledge and skills to design and document simple and complex information systems solutions using the appropriate modelling, prototyping and documentation tools and methods. <i>P: ITSD6.348 Systems Analysis</i>	15	6	1
ITPR6.508	<b>Advanced Object-Oriented Programming</b> To provide students with the knowledge and skills to design and develop software using all the facilities of an object-oriented programming language and design modelling and concepts. <i>P: ITPF5.110 Programming Fundamentals</i>	15	6	1
ITHW6.238	<b>Electronics and Internet of Things Technology</b> To provide students with the knowledge of electronics and the technical skills to work in a computing hardware setting. <i>P: ITCS5.100 Computer System Architecture</i>	15	6	1
ITPR6.358	<b>User Experience and User Interfaces</b> To provide the students with knowledge and skills of industry based theory and methods for the design and development of successful user interfaces, user experience (UX) design and prototyping.	15	6	1
ITDF6.100	<b>Digital Forensics Fundamentals</b> To equip students with the knowledge and skills to use appropriate computer forensics tools and techniques to contribute towards evidence gathering. <i>P: ITSD6.348 Systems Analysis</i>	15	6	1
ITPR6.518	<b>Enterprise Software Development</b> To provide students with the knowledge and skills to design, develop, maintain and deploy software to support enterprise systems applications. <i>P: ITPR6.508 Advanced Object-Oriented Programming</i>	15	6	2
ITDB6.208	<b>Database Management Systems</b> To provide the students with the knowledge and skills to apply the principles of data design and management using database software, and enable them to create and implement a database with standard development tools. <i>P: ITDT5.228 Introduction to Data Concepts</i>	15	6	2
ITOS6.608	<b>Operating Systems</b> To provide the students with a general understanding of a modern operating system and the necessary skills to install and carry out various administrative tasks. <i>P: ITCS5.100 Computer System Architecture</i>	15	6	2
ITAE6.100	<b>Automation and Embedded Systems</b> To introduce students to the theory and application of automation with some focus on how to build solutions to real-world problems using embedded systems. <i>P: ITCS5.100 Computer System Architecture C: ITHW6.238 Electronics and IoT</i>	15	6	2

COURSE NO.	LEVEL 6 BRIEF DESCRIPTION	NO. OF CREDITS	NZQA LEVEL	SEMESTER OFFERED
ITMA6.240	<p><b>Maths in Information Technology</b> To provide students with the knowledge and skills of mathematics theory and its use in general and applied IT. P: ITDT5.228 Introduction to Data Concepts</p>	15	6	2
ITKM6.398	<p><b>Knowledge Management</b> To provide students with the knowledge and skills of explicit mechanisms to retain and use institutional knowledge and the practical strategies to implement KM programmes into the workplace. P: ITIS5.450 Information Systems</p>	15	6	2
ITWD6.408	<p><b>Advanced Internet and Web Page Development</b> To provide the students with the knowledge and skills of the client-side web development and website management. P: ITWD5.130 Website Development</p>	15	6	2
ITDC6.218	<p><b>Data Communications and Networking</b> To equip students with practical skills in switched networking environments. Students will apply the knowledge from Level 5 Computer System Architecture to design and implement and networks using modern data communications tools and equipment. P: ITCS5.100 Computer System Architecture</p>	15	6	2
ITNA6.258	<p><b>Advanced Network and the Cloud</b> To provide the students with general knowledge of a Network Operating System and the necessary skills to install and carry out various administrative tasks. P: ITCS5.100 Computer System Architecture C: ITDC6.218 Data Communications and Networking</p>	15	6	2

COURSE NO.	LEVEL 7 BRIEF DESCRIPTION	NO. OF CREDITS	NZQA LEVEL	SEMESTER OFFERED
ITST7.408	<b>Special Topic</b>	15	7	1 & 2
ITSY7.668	<p><b>Cybersecurity</b> 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 and Networking</p>	15	7	1
ITDA7.240	<p><b>Data Analytics</b> To provide students with the knowledge and skills to use industry standard data analysis tools and techniques and present meaningful and useful information. P: ITPF5.110 Programming Fundamentals ITDT5.228 Introduction to Data Concepts ITDB6.208 Database Management Systems ITMA6.240 Maths in IT</p>	15	7	1
ITGA7.100	<p><b>GIS Analytics</b> To provide students with the knowledge and skills to use appropriate GIS analytics tools and techniques to present meaningful and useful GIS information. P: ITDB6.208 Database Management Systems</p>	15	7	1
ITPR7.508	<p><b>Business Application Programming</b> 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</p>	15	7	
ITWD7.358	<p><b>Web Application Programming</b> To provide students with the knowledge and skills to develop client-server web-based applications. P: ITPR5.518 Introduction to Object-Oriented Programming ITIM5.238 Internet and Mobile Technology ITWD6.408 Advanced Internet and Web Page Development</p>	15	7	1
ITEC7.398	<p><b>E- Business Strategies</b> To provide students with the knowledge and skills to evaluate and analyse the drivers of successful e-business strategies for organisations. P: ITKM6.398 Knowledge Management</p>	15	7	2



COURSE NO.	LEVEL 7 BRIEF DESCRIPTION	NO. OF CREDITS	NZQA LEVEL	SEMESTER OFFERED
ITHW7.238	<p><b>Enterprise Support and Infrastructure</b> To provide students with technical knowledge and skills to plan, prepare and manage a range of enterprise technologies, configurations and infrastructure.</p> <p>P: ITET6.238 Electronics and Technology in IT ITDC6.218 Data Communications and Networking</p>	15	7	2
ITAI7.110	<p><b>Machine Learning and Artificial Intelligence</b> To provide students with the knowledge and skills to apply machine learning and artificial intelligence theories and technologies to solve real-world problems.</p> <p>P: ITAE6.100 Automation and Embedded System ITHW6.238 Electronics and IoT</p>	15	7	2
ITFM7.120	<p><b>Mechatronics in IT</b> To provide students with knowledge and skills of feedback control, electro-mechanical system interfaces, software and electronics that enable robotics.</p> <p>P: ITAE6.100 Automation and Embedded System ITHW6.238 Electronics and IoT</p> <p>C: ITAI7.110 Machine Learning and Artificial Intelligence</p>	15	7	2



# HOW TO ENROL

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

## STEP 1

Check out the programmes online to see the programmes available for you to study. A copy of the course information for each programme is available online.

## STEP 2

You can now use your RealMe verified identity to apply for study at EIT. 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. Your enrolment cannot progress until you have sent this back to us. Please return this quickly along with any documentation we request from you.

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.

It may also include course selection forms which you need to complete and return to EIT. 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** 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**.

**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** 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. 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 what you qualify for at **studylink.govt.nz**.



THE EXPERIENCE YOU NEED  
& THE SUPPORT TO SUCCEED



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