

POSTGRADUATE DIPLOMA IN INFORMATION TECHNOLOGY 2020



Information for International applicants

Napier and Auckland

Take your knowledge and skills in Information Technology (IT) to the next level. 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 Postgraduate Diploma in Information Technology (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.

As a graduate of the PGDipIT you'll have an understanding of the broad conceptual and theoretical elements involved in the IT arena.

SCHOLARSHIP

There is a scholarship available for this programme. This scholarship provides a small contribution to assist students to realise their goal of studying in New Zealand.

All International students who accept an offer of place for this programme will receive the scholarship. Please contact us for more information: international@eit.ac.nz

WORK EXPERIENCE

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

CAREER OPPORTUNITIES

Possible job and career opportunities can include:

- Systems Analyst
- IT Consultant
- Business Analyst
- IT Infrastructure Analyst
- E-Commerce Advisor
- Project Manager
- Security Analyst
- IT Manager

CAREER OUTLOOK

Visit the following websites for the latest information about job opportunities in New Zealand for your chosen career path.

CareersNZ offers a range of tools to help you explore jobs and plan your career: [careers.govt.nz](https://www.careers.govt.nz)

For extensive information on labour supply and demand for occupations visit: [occupationoutlook.mbie.govt.nz](https://www.occupationoutlook.mbie.govt.nz)

For information about the Long Term Skill Shortage List visit: [skillsHORTAGES.immigration.govt.nz](https://www.skillsHORTAGES.immigration.govt.nz)



STUDENT PROFILE

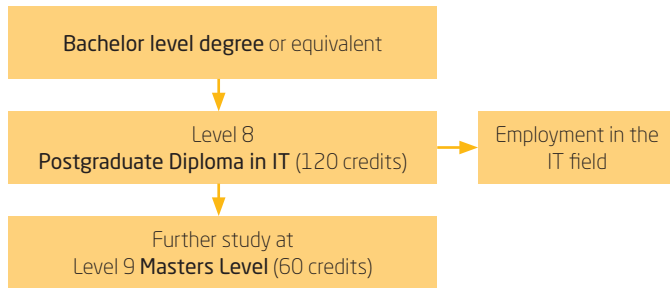
Parvathy Sasikumar | India

"I love the environment and learning atmosphere at EIT. The teachers are very helpful and it is a student-friendly campus. EIT has provided me opportunities to challenge myself and gain a huge improvement in my academic ability. EIT is a great choice for international students."

Qualification	Postgraduate Diploma in Information Technology
Level	Level 8
Length	1 year
Start dates	Napier: 17 Feb, 20 July Auckland: 23 Mar, 2 June, 17 Aug, 27 Oct
Fees	NZ\$ 21,500
IELTS requirements	6.5 (academic) with no band score lower than 6.0 or equivalent.
Total credits	120
Class times	Classes are scheduled between 8.00am and 5.00pm Monday - Friday. Approximately two classroom hours per course per week
Study hours	Approximately two hours for each classroom hour
Location	Napier, Auckland

STUDY PATHWAY

Strategically the Postgraduate Diploma in IT (PGDip IT) fits into the following pathways:



FACILITIES

In the state-of-the-art IT complex at EIT there are nine networked computer laboratories with between 24 and 30 student stations in each. The rooms are environmentally controlled, with data show equipment in each room. There are specific labs for software development, hardware, multimedia and a room for computer study. The facility also has a 50-seat tiered lecture theatre.

ENTRY CRITERIA

ACADEMIC ENTRY REQUIREMENTS

- A bachelor's degree in computing at a recognised educational institute or
- A bachelor's 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.

ENGLISH LANGUAGE ENTRY REQUIREMENTS

Approved scores on TOEFL or IELTS (6.5 Academic) with no band score lower than 6.0 or equivalent.



COURSE LIST

The structure of the PGDipIT is summarised in the following table. Please note, pre-requisites will apply to some courses.

Level	7 - 8	8	Total
Credits	45	75	120

The compulsory course is:

- PRGM8.100 Applied Research Methods (offered in both semesters).

Other courses are selected from the level 7 or from the elective level 8 PGDipIT courses.

Semester 1

ITAI7.110	Machine Learning and Artificial Intelligence
ITDA7.240	Data Analytics
ITHW7.238	Enterprise Support and Infrastructure
ITIM7.458	IT Management and Professionalism
ITPJ7.390	Final Project Internship
ITPR7.508	Business Application Programming
ITSY7.668	Information Systems Security
ITWD7.358	Web Application Programming

Semester 2

ITAI7.110	Machine Learning and Artificial Intelligence
ITDA7.240	Data Analytics
ITEC7.398	E-Business Strategies
ITFM7.120	Mechatronics in IT
ITIM7.458	IT Management and Professionalism
ITPJ7.390	Final Project Internship
ITPR7.508	Business Application Programming
ITSY7.668	Information Systems Security

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

Semester 1

ITPG8.100	Advanced IT Project Management
ITPG8.550	Cloud Based IT Solutions
ITPG8.600	Advanced Mobile and Wireless Technologies
ITPG8.670	Information Security in the Enterprise
PGRM8.100	Applied Research Methods
PGRP8.100	Research Proposal
PGST8.100	Special Topic I
PGWIL8.100	Work Integrated Learning

Semester 2

ITPG8.200	Strategic IT Management
PGDAV8.100	Data Analytics and Visualisation
ITPG8.400	Impact of Computing on Society
ITPG8.800	Enterprise Content Management
PGRM8.100	Applied Research Methods
PGRP8.100	Research Proposal
PGST8.100	Special Topic I
PGWIL8.100	Work Integrated Learning

FIND OUT MORE:

✉ international@eit.ac.nz
 🌐 www.international.eit.ac.nz

CONNECT WITH US:



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

LEVEL 7 COURSE NO.	BRIEF DESCRIPTION	CREDITS	LEVEL	SEMESTER
ITAI7.110	Machine Learning and Artificial Intelligence (Napier only) To provide students with the knowledge and skills to apply machine learning and artificial intelligence theories and technologies to solve real-world problems. <i>P: ITAE6.100 Automation and Embedded System, ITHW6.238 Electronics and IoT</i>	15	7	1&2
ITDA7.240	Data Analytics (Napier only) To provide students with the knowledge and skills to use industry standard data analysis tools and techniques and present meaningful and useful information. <i>P: ITPF5.110 Programming Fundamentals, ITDT5.228 Introduction to data concepts, ITDB6.208 Database Management Systems, ITMA6.240 Maths in IT</i>	15	7	1&2
ITEC7.398	E-Business Strategies (Napier only) To provide students with the knowledge and skills to evaluate and analyse the drivers of successful e-business strategies for organisations. <i>P: ITEC6.398 E-Commerce</i>	15	7	2
ITFM7.120	Mechatronics in IT (Napier only) To provide students with the knowledge and skills of feedback control, electro-mechanical system interfaces, software and electronics that enable robotics. <i>P: ITAE6.100 Automation and Embedded System, THW6.238 Electronics and IoT</i>	15	7	2
ITHW7.238	Enterprise Support and Infrastructure (Napier only) To provide students with the knowledge and practical experience in emerging digital technologies within the educational and training environment. <i>P: ITET6.238 Electronics and Technology in IT, ITDC6.218 Data Communications and Networking</i>	15	7	1
ITIM7.458	IT Management and Professionalism (Napier only) 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. <i>P: ITIS5.450 Information Systems, ITSD6.348 Systems Analysis, ITSD6.349 Systems Design</i>	15	7	1&2
ITPJ7.390	Final Project Internship (Napier only) To provide students with the opportunity to apply the knowledge and skills gained during their computing studies in a business environment. Needs special approval from the Programme Coordinator. <i>P: ITPM6.318 Project Management, ITSD6.348 Systems Analysis, ITSD6.349 Systems Design</i> 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 (Napier only) To provide students with the knowledge and skills to develop a business application from a specification. <i>P: ITPR5.518 Introduction to Object Oriented Programming, ITPR6.508 Advanced Object Oriented Programming, ITWD6.408 Advanced Internet and Web Page Development</i>	15	7	1&2
ITST7.408	Special Topic in IT (Napier only) To provide 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 (Napier only) To provide students with the knowledge and skills to apply information systems security/forensics concepts, identify security risks and make contingency plans and policies. <i>P: ITDC6.218 Data Communications & Networking.</i>	15	7	1&2
ITWD7.358	Web Application Programming (Napier only) To provide students with the knowledge and skills to develop client-server web-based applications. <i>P: ITPR5.518 Introduction to Object Oriented Programming, ITIM5.238 Internet and Mobile Technology, ITWD6.408 Advanced Internet and Web Page Development.</i>	15	7	2
LEVEL 8 COURSE NO.	BRIEF DESCRIPTION	CREDITS	LEVEL	SEMESTER
ITPG8.100	Advanced IT Project Management (Napier & Auckland) 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 (Napier & Auckland) 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

PGDAV8.100	Data Analytics and Visualisation (Napier & Auckland) To provide students with learning opportunities to develop advanced knowledge and skills in data analytics and data wrangling for effective data-driven decision-making and data visualisation.	15	8	2
PGRM8.100	Applied Research Methods (Napier & Auckland) 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 (Napier & Auckland) 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. <i>P: PGRM8.100 Applied Research Methods</i>	15	8	1 & 2
PGST8.100	Special Topic I (Napier & Auckland) To provide students with an opportunity to develop research and problem-solving skills which are relevant to the IT industry. Needs special approval from the Programme Coordinator. <i>P: PGRM8.100 Applied Research Methods</i>	15	8	1 & 2
PGWIL8.100	Work Integrated Learning (Napier & Auckland) This course provides students with experience in an applied IT work environment and the 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. <i>P: Students must have completed at least 60 credits of post graduate study.</i>	15	8	1 & 2
ITPG8.400	Impact of Computing on Society (Napier & Auckland) 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 advances in technology.	15	8	2
ITPG8.500	Enterprise Resource Planning Systems (Napier & Auckland) 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	As required
ITPG8.550	Cloud Based IT Solutions (Napier & Auckland) 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 (Napier & Auckland) 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
ITPG8.670	Information Security in the Enterprise (Napier & Auckland) 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
ITPG8.800	Enterprise Content Management (Napier & Auckland) To provide students with an understanding of the concepts and technologies involved in enterprise content management and 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 (Napier & Auckland) 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