

# POSTGRADUATE DIPLOMA IN INFORMATION TECHNOLOGY 2019

Information for International applicants

Napier and Auckland

Take your knowledge and skills in Information Technology to the next level! Build on your existing computing study and advance with skills that are recognised shortages within New Zealand and internationally. You'll learn to think critically to explore Information Technology topics at a higher level that can be applied in a wide range of situations.

Students in this programme have the opportunity to choose from three new specialisations:

- Pervasive Technology
- IT Security and Data Forensics
- Data Analysis and Visualisation

## SCHOLARSHIP

There is a scholarship available for this programme. This scholarship provides a small contribution to assist students 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](mailto:international@eit.ac.nz)

## CAREER OUTCOMES

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

Employment rate two years after study

79%

Job opportunities



Percentage of graduates in further study

19%

\$  
\$50k - \$80k+  
Potential earning range

Source: <https://www.careers.govt.nz/qualifications/view/HB4026/6007>



## STUDENT PROFILE

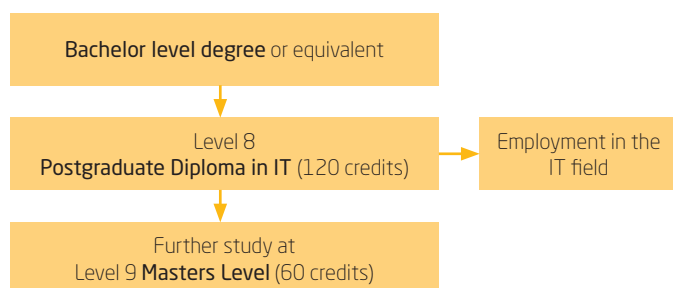
Parvathy Sasikumar | India

"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	One year
Start dates	Napier: 18 February, 22 July Auckland: 25 March, 19 August
Fees	\$21,000
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 four 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 fits into the following pathways:



## FACILITIES

In the state-of-the-art Information Technology Complex 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.



## WORK EXPERIENCE

The Postgraduate Diploma in IT 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 or case study based work.

## 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 both semesters).

Other courses are selected from the level 7 or from the elective level 8 Postgraduate Diploma in IT courses.

### Semester 1 - 2019

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

### Semester 2 - 2019

ITAI7.110	Machine Learning and Artificial Intelligence
ITDA7.240	Data Analytics
ITPJ7.298	Project/Internship
ITIM7.458	IT Management and Professionalism
ITPR7.508	Business Application Programming
ITSY7.668	Information Systems Security
ITFM7.120	Mechatronics in IT
ITEC7.398	E-Business Strategies

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

### Semester 1 - 2019

ITPG8.100	Advanced IT Project Management
ITPG8.600	Advanced Mobile and Wireless Technologies
ITPG8.670I	Information Security in the Enterprise
ITPG8.550	Cloud Based IT Solutions
PRGP8.100	Research Proposal
PRGM8.100	Applied Research Methods
ITPG8.350	Special Topic
ITPG8.370	IT Work Integrated Learning

### Semester 2 - 2019

ITPG8.200	Strategic IT Management
ITPG8.250	Data Analytics & Visualisation
ITPG8.500	Enterprise Resource Planning Systems
ITPG8.800	Enterprise Content Management
PRGP8.100	Research Proposal
PRGM8.100	Applied Research Methods
ITPG8.350	Special Topic
ITPG8.370	IT Work Integrated Learning

## FIND OUT MORE:

✉ [international@eit.ac.nz](mailto:international@eit.ac.nz)  
 🌐 [www.international.eit.ac.nz](http://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
ITDB7.200	<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: ITAE6.100 Automation and Embedded System, ITHW6.238 Electronics and IoT	15	7	1&2
ITDA7.240	<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	15	7	1&2
ITDB7.208	<b>Database Administration</b> To allow students to develop knowledge and skills in both the technical and managerial aspects of Database Administration. P: ITDB6.208 Database Management Systems	15	7	(as required)
ITEC7.398	<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: ITEC6.398 E-Commerce	15	7	2
ITFM7.120	<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: ITAE6.100 Automation and Embedded System, THW6.238 Electronics and IoT	15	7	1
ITHW7.238	<b>Enterprise Support and Infrastructure</b> 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	15	7	1
ITIM7.458 IT	<b>Management and Professionalism</b> 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: ITIS5.450 Information Systems, ITSD6.348 Systems Analysis, ITSD6.349 Systems Design	15	7	1&2
ITOS7.608	<b>Advanced Cloud Infrastructure</b> 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	15	7	(as required)
ITPJ7.298	<b>Final Project Internship</b> 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	<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	15	7	1&2
ITST7.408	<b>Special Topic in IT</b> 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	<b>Information Systems Security</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 & Networking	15	7	1&2
ITWD7.358	<b>Web Application Development</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	15	7	2
LEVEL 8 Course No.	Brief Description	Credits	Level	Semester
ITPG8.100	<b>Advanced IT Project Management</b> 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	<b>Strategic IT Management</b> 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	<b>Data Analytics and Visualisation</b> 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	<b>Applied Research Methods</b> 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	<b>Research Proposal</b> 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
ITPG8.350	<b>Special Topic</b> 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	<b>IT Work Integrated Learning</b> 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
ITPG8.400	<b>Impact of Computing on Society</b> 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	<b>Virtualisation Management</b> 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	<b>Enterprise Resource Planning Systems</b> 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	<b>Cloud Based IT Solutions</b> 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	<b>Advanced Mobile and Wireless Technologies</b> 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
<b>ITPG8.650</b>	<b>IT Forensics</b> 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
<b>ITPG8.670</b>	<b>Information Security in the Enterprise</b> 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	<b>Mobile Software Architectures</b> 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	<b>Enterprise Content Management</b> 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	<b>Advanced Digital Learning Technologies</b> 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