GRADUATE DIPLOMA IN INFORMATION TECHNOLOGY 2019

Information for International applicants

EASTERN INSTITUTE OF TECHNOLOGY
NEW ZEALAND

Napier and Auckland

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

You will gain the necessary technical skills and insight so you can adapt to technological changes and meet the challenging demands of the IT world. Your new skill set will enhance your existing qualification and put you in good stead within your current or future workplace.

The Graduate Diploma in Information Technology will give you a range of professional skills including the ability to advise, develop and implement innovations leading to a more efficient use of resources within a dynamic IT environment. You'll also gain an understanding of the legal, regulatory and ethical frameworks of the IT sector.

This programme is suitable for students who do not have an academic background in Information Technology.

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

CAREER OUTCOMES

Possible job and career opportunities can include:

- Systems Analyst
- Web Developer
- Business Analyst
- IT Infrastructure support
- E-Commerce Advisor
- Project Manager
- Digital Marketer
- Technical Support Advisor

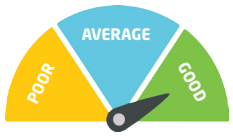
CAREER OUTLOOK

Employment rate two years after study

83%

Employment rate two years after study

Job opportunities



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$62,612

Median earnings of people who have completed this qualification

https://www.careers.govt.nz/qualifications/view/HB4002/6007

STUDENT PROFILE

Prasad Salgaonkar | India

"EIT offers practical experience in IT and research opportunities in software testing and cloud computing. It also provides a great pathway to work and live in New Zealand."

Qualification	Graduate Diploma in Information Technology
Programme level	Level 7
Length	One year
Start dates	Napier: 18 February, 22 July Auckland: 25 March, 19 August
Fees	$20,200
IELTS requirements	6.0 (academic) with no band score lower than 5.5 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
Self-directed Study	Approximately two hours for each classroom hour
Location	Napier, Auckland

WHAT YOU WILL LEARN

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

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

- 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 who have diverse backgrounds.
- 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.

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

Applicants must meet one of the following criteria:

- A bachelor's degree at a recognised educational institute or
- Equivalent qualification, and
- Students are required to provide evidence of knowledge and skills in:

- Data storage and data manipulation; and MS Office applications

ENGLISH LANGUAGE ENTRY REQUIREMENTS

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 or IELTS (6.0 Academic) with no band score lower than 5.5 or equivalent, or completion of an EIT Hawke's Bay assessment (ELPT).

COURSE LIST

The structure of the diploma is summarised in the following table. The only compulsory course is ITPM6.310 Project Management. Please note, pre-requisites will apply to some courses.

Level	5 - 7	7	Total
Credits	45	75	120

LEVEL 6

ITAE6.100	Automation and Embedded Systems	15
ITDB6.208	Database Management Systems	15
ITDC6.210	Data Communications and Networking	15
ITHW6.238	Electronics and Internet of Things Technology	15
ITKM6.398	Knowledge Management	15
ITMA6.240	Maths in Information Technology	15
ITNA6.258	Advanced Network and the Cloud	15
ITOS6.608	Operating Systems	15
ITPM6.318	Project Management	15
ITPR6.358	User Experience & User Interfaces	15
ITPR6.508	Adv. Object Oriented Programming	15
ITPR6.518	Enterprise Software Development	15
ITPR6.598	Software Testing	15
ITSD6.348	Systems Analysis	15
ITWD6.408	Adv. Internet & Web Page Development	15

LEVEL 7

ITAI7.110	Machine Learning and Artificial Intelligence	15
ITDA7.240	Data Analytics	15
ITEC7.398	E- Business Strategies	15
ITFM7.120	Mechatronics in IT	15
IITHW7.238	Enterprise Support and Infrastructure	15
ITIM7.458	IT Management and Professionalism	15
ITPJ7.390	Project / Internship	15
ITIM7.458	IT Management & Professionalism	15
ITPR7.508	Business Application Programming	15
ITSY7.668	Information Systems Security	15
ITWD7.358	Web Application Programming	15

SPECIALISATIONS (Napier Only)

Students can focus their study on a specific IT area by selecting certain groups of subjects. See the examples below:

TECHNICAL SUPPORT

ITPM6.318	Project Management
ITNA6.250	Network Administration & Support
ITSY7.668	Information Systems Security
ITOS6.608	Operating Systems
IITHW7.238	Enterprise Support and Infrastructure
ITAI7.110	Machine Learning and Artificial Intelligence
ITHW6.230	Hardware Technology

WEB DEVELOPMENT

ITPM6.318	Project Management
ITWD6.408	Adv. Internet & Web Page Development *
ITPR6.358	User Experience & User Interfaces
ITAI7.110	Machine Learning and Artificial Intelligence
ITEC7.398	E- Business Strategies
ITWD7.358	Web Application Programming
ITIM7.458	IT Management and Professionalism

** students require a solid technical base for these subjects*

INTELLIGENT SYSTEMS

ITHW6.238	Electronics & IoT
ITAI7.110	Machine Learning & AI
ITDA7.240	Data Analytics
ITAE6.100	Automation & Embedded Systems
ITMA6.240	Maths in IT
ITFM7.120	Mechatronics in IT

Plus 2 electives at Level 6 or 7

FIND OUT MORE:

international@eit.ac.nz
www.international.eit.ac.nz

CONNECT WITH US:

EIT
EASTERN INSTITUTE OF TECHNOLOGY
NEW ZEALAND

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 5 COURSE NO.	BRIEF DESCRIPTION	CREDITS	LEVEL	SEMESTER OFFERED
ITCS5.100	**Computer Systems Architecture** (Napier only) 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 is placed on safe and effective industry practices.	15	5	2
ITCT5.120	**IT Concepts and Tools** (Napier only) 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
ITDT5.220	**Intro to Data Concepts** (Napier only) To provide students with fundamental knowledge and skills of the data concepts central to all Information Systems**.**	15	5	1
ITIM5.238	**Internet and Mobile Technology** (Napier only) To provide the students with knowledge and skills of the concepts of Internet and Mobile development technologies.	15	5	1
ITIS5.450	**Information Systems** (Napier only) 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
ITPF5.110	**Programme Fundamentals** (Napier only) 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	1 & 2
ITPR5.518	**Intro to Object Oriented Programming** (Napier only) To provide students with the basic knowledge and skills to use an object-oriented programming language and sound programming practices to design a basic program given a set of requirements **P: ITPF5.110 Programming Fundamentals**	15	5	1 & 2
ITWD5.130	**Website Development** (Napier only) To provide students with the knowledge and skills to create a static website that meets a specific client brief.	15	5	2
LEVEL 6 COURSE NO.				
ITAE6.10	**Automation and Embedded Systems** (Napier only) 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. **P: ITCS5.100 Computer System Architecture** **C: ITHW6.238 Electronics and IoTT**	15	6	2
ITDB6.208	**Database Management Systems** (Napier & Auckland) 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. **P: ITDT5.228 Introduction to Data Concepts**	15	6	2
ITDC6.210	**Data Communications and Networking** (Napier only) 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**	15	6	2
ITHW6.238	**Electronics and Internet of Things Technology** (Napier only) To provide students with the knowledge of electronics and the technical skills to work in a computing hardware setting **P: ITCS5.100 Computer System Architecture**	15	6	1
ITKM6.398	**Knowledge Management** (Napier only) 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**	15	6	2

ITMA6.240	**Maths in Information Technology** (Napier only) 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	15	6	2
ITNA6.258	**Advanced Networking and the Cloud** (Napier & Auckland) 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**	15	6	2
ITOS6.608	**Operating Systems** (Napier only) 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**.** **P: ITCS5.100 Computer System Architecture**	15	6	2
ITPM6.318	**Project Management** (Napier & Auckland) 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
ITPR6.358	**User Experience & User Interfaces** (Napier only) 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
ITPR6.508	**Adv. Object Oriented Programming** (Napier only) 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 **P: ITPR5.518 Introduction to Object-Oriented Programming**	15	6	1
ITPR6.518	**Enterprise Software Development** (Napier only) To provide students with the knowledge and skills to design, develop, maintain and deploy software to support enterprise systems applications. **P: ITPR6.508 Advanced Object-Oriented Programming**	15	6	2
ITPR6.598	**Software Testing** (Napier only) To provide students with the knowledge and skills to design, develop, and implement software testing plans and produce meaningful test reports. **P: ITPF5.110 Programming Fundamentals** **ITPR5.518 Introduction to Object Oriented Programming**	15	6	2
ITSD6.348	**Systems Analysis** (Napier only) 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. **P: ITIS5.540 Information Systems** **ITDT5.228 Introduction to Data Concepts**	15	6	1
ITSD6.349	**Systems Design** (Napier only) 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. **P: ITSD6.348 Systems Analysis**	15	6	1
ITWD6.408	**Adv. Internet & Web Page Development** (Napier only) To provide the students with the knowledge and skills of the client-side web development and website management. **P: ITWD5.130 Website Development** **ITIM5.238 Internet and Mobile technology**	15	6	2
LEVEL 7 COURSE NO.				
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 **P: ITAE6.100 Automation and Embedded System** **ITHW6.238 Electronics and IoTT**	15	7	1 & 2
ITDA7.240	**Data Analytics** (Napier & Auckland) 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

ITEC7.398	**E- Business Strategies** (Napier & Auckland) To provide students with the knowledge and skills to evaluate and analyse the drivers of successful e-business strategies for organisations. **P: ITEC6.398 Knowledge Management**	15	7	2
ITFM7.120	**Mechatronics in IT** (Napier only) To provide students with knowledge and skills of feedback control, electro-mechanical system in terfaces, software and electronics that enable robotics. **P: ITAE6.100 Automation and Embedded System** **ITHW6.238 Electronics and IoTT** **C: ITAI7.110 Machine Learning and artificial intelligence**	15	7	1
ITHW7.238	**Enterprise Support and Infrastructure** (Napier only) To provide students with technical knowledge and skills to plan, prepare and manage a range of enterprise technologies, configurations, and infrastructure. **P: ITET6.238 Electronics and Technology in IT** **ITDC6.218 Data Communications and Networking**	15	7	1
ITIM7.458	**IT Management and Professionalism** (Napier & Auckland) To provide students with the knowledge and skills to analyse organisations and make informed IT management decisions while maintaining the highest level of 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
ITPJ7.390	**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. **P: ITPM6.318 Project Management** **ITSD6.348 Systems Analysis** **ITSD6.349 Systems Design** **ITIM7.458 IT Management & Professionalism**	15	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. **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
ITSY7.668	**Information Systems Security** (Napier & Auckland) 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 Programming** (Napier only) 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	1