Master / Postgraduate Diploma in

Applied Data Analytics 2027†

EASTERN INSTITUTE OF TECHNOLOGY
NEW ZEALAND

Information for international applicants

NEW PROGRAMME

2027

"I particularly enjoyed courses like Data Analytics and Visualisation because they allowed me to work with real datasets, uncover insights, and apply analytical techniques that are highly relevant to today's data-driven world."

Lahiru Dissanayaka Mudiyanselage | Master of Information Technology (2025 Graduate)

Be at the forefront of data-driven innovation, transforming information into insights that empower smarter, faster decisions in an increasingly complex and rapidly evolving world.

The Postgraduate Suite in Applied Data Analytics is designed to develop analytical professionals who can harness the power of data to drive informed decision-making across diverse industries and contexts. Through a blend of advanced analytical techniques and practical application, learners will be prepared to lead data-informed decision-making and effectively communicate findings in organisations facing constant change and growing complexity.

Campus	**Napier, Hawke's Bay & Auckland**
Start	**February, April, July and October 2027**
Length	**1, 1.5 or 2 years full-time (depending upon qualification chosen)**
Contact	**international@eit.ac.nz**

Note: † Pending NZQA Approval.

Elevate your critical thinking skills and analytic capabilities through real-world application

The postgraduate Applied Data Analytics programme suite combines courseware with applied and research-based projects to ensure graduates are 'work-ready' and can use their completed projects to demonstrate their capability and proficiency as data analysts to potential employers.

Combining statistical theory, computational expertise, and applied domain knowledge, the programme suite equips graduates with the skills to extract meaningful insights from complex datasets, solve real-world problems, and communicate findings effectively to both technical and non-technical audiences.

Graduates will be able to undertake a broad range of advanced data analytic activities, from the initial formatting of data through to the visualisation and presentation of the analysis, coding/scripting using a range of tools and languages (e.g. R and Python).

Master of Applied Data Analytics

The Master of Applied Data Analytics is a Level 9 programme of either 180 credits or 240 credits at Levels 8 and 9 with at least 45 credits at Level 9, completed by coursework and industry integrated or applied research. It enables those who have completed a bachelor's degree in fields with a quantitative focus, such as engineering (including software engineering), science, economics, finance, mathematics/statistics to complete a master's qualification in the Applied Data Analytics area.

The programme can be completed in 18 months full-time for the 180 credit Masters or two years full-time for the 240 credit Masters.

Through this programme, graduates develop the skills and knowledge required to:

- Demonstrate deep and integrated knowledge of conceptual and theoretical elements of data analytics.
- Critically evaluate complex data-related problems, and design analytical approaches for a wide range of applied contexts.
- Discern information needs, and locate, create, evaluate, and use data and evidence effectively, to develop robust evidence-based arguments.
- Effectively communicate knowledge, ideas, limitations, recommendations and decisions to diverse audiences, using suitable professional, academic, and digital formats.
- Demonstrate ethical, responsible, and culturally responsive practice in the collection, management, analysis, interpretation, and communication of data.
- Apply data governance principles, privacy legislation, and ethical frameworks to ensure equitable, inclusive, and culturally responsive data practices in both Aotearoa New Zealand and globally.
- Undertake independent research and apply advanced analytical problem solving to address complex real-world challenges, demonstrating leadership and delivering meaningful impact.

Industry Integrated

This programme is tailored to meet both students' and their organisation's development requirements.

Research

This programme allows students to undertake significant applied research to further develop research skills and applied knowledge.

"What truly sets this programme suite apart is the seamless integration of advanced technical courseware with practical, project-based learning - empowering graduates to analyse complex data and translate it into meaningful, accessible insights for non-technical stakeholders."

Geoffrey Mather
Head of School of Computing

Postgraduate Diploma in Applied Data Analytics

The Postgraduate Diploma in Applied Data Analytics is a Level 8 programme of 120 credits, of which 30 credits is a Level 8 applied project. It enables those who have completed a bachelor's degree in fields with a quantitative focus such as engineering (including software engineering), science, economics, finance, mathematics/statistics to complete a postgraduate diploma in the Applied Data Analytics area.

Those who wish to progress from the Postgraduate Diploma to the 240 credit Masters will need to complete eight courses (120 credits) at Level 8.

The programme can be completed in one year full-time, depending on your previous study and experience and specific course preferences. It can act as an entry point into the masters degree if you do not initially meet the entry requirement and need to demonstrate your ability to study at a postgraduate level. Alternatively, if you initially enrolled in the masters degree and are not in a position to complete it, you can transfer any applicable courses to the postgraduate diploma for the purposes of qualification completion.

Master of Applied Data Analytics Level 9 | 180 or 240 credits		
Campus	Napier & Auckland	
Start	9 February, 27 April, 19 July, 4 October (on-campus)	
Credits	**180 credits**	**240 credits**
Length	1.5 years full-time	2 years full-time
Fees[1]	$44,400	$59,200

Postgraduate Diploma in Applied Data Analytics Level 8 | 120 credits	
Campus	Napier & Auckland
Start	9 February, 27 April, 19 July, 4 October (on-campus)
Credits	**120 credits**
Length	1 year full-time
Fees[1]	$29,600

IELTS	6.5 (academic) with no band lower than 6.0 **OR** accepted international equivalent qualification

Career Opportunities

Possible job and career opportunities can include:

- Data Analyst
- Business / Insights Analyst
- Decision Scientist
- Analytics Consultant
- Statistical Analyst
- Customer Data Analyst
- Risk Analytics Specialist
- Operations Analyst

Career Outlook

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

tahatu.govt.nz

mbie.govt.nz

immigration.govt.nz

Industry-based Training

The postgraduate Applied Data Analytics programmes suite aims to produce graduates who have industry relevant practical and theoretical skills in this area. The majority of courses include some industry-based project or case study based work.

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

Postgraduate courses are taught through blended delivery on-campus in New Zealand. Blended means part of the course will be communicated and completed online; with the rest consisting of self-directed activities, and on-campus workshops. For each 15 credit course, students are expected to attend approximately four hours of classes and workshops per week.

Level 9 courses are principally supervised independent study on campus.

Elective courses from other EIT schools may be delivered using a different modality. You should consult the appropriate school's Postgraduate Handbook and course timetable.

Non-contact Time

As a general guideline, you should plan to spend 10 hours of individual study per course credit, so a 15-credit course would require at least 150 hours of study over its duration. Access to a computer and the internet is required to complete this programme.

1. All fees shown in this information are in New Zealand dollars and include Goods and Services Tax (GST) at current rates. If you need to study for more than one year to complete your qualification, your fees in the second year, and subsequent years, will not be known when you first enrol.

Academic Entry Requirements

Master of Applied Data Analytics (180 or 240 Credits)

- An undergraduate degree which has a quantitative focus with a minimum of a B- average in the final year of study[2].

Postgraduate Diploma in Applied Data Analytics (120 Credits)

- An undergraduate degree which has a quantitative focus[2].

English Language Entry Requirements

PTE (Academic) score of 58 with no band score lower than 50 or IELTS (Academic) score of 6.5 with no band score lower than 6.0 (or equivalent) achieved within the last two years.

Access to Course Material

You must have the following available to be able to utilise the online learning environment:

- Desktop or laptop computer with camera and sound or other appropriate electronic device not older than five years
- Reliable broadband internet connection
- Software as required

When you study at postgraduate level at EIT, you enter your course through the EIT Online website. After logging in, you can access your course materials such as readings, learning activities and assessments. Online communication tools such as discussion forums and chat let you interact with your teacher and classmates.

You will be supported in how to do this and receive relevant training for specific software.

Assessments

All Level 8 and Level 9 course work assessments are marked internally. Assessments consist of assignments, tests, practical demonstrations, presentations, projects and case studies.

Assessments for supervised courses with a credit value of 30 credits or more are independently examined.

It is EIT policy to independently moderate all assignments and assessments.

Facilities

EIT's Napier and Auckland campuses offer modern learning environments designed to support student success. Students benefit from a personalised and supportive learning experience including access to campus-wide wireless connectivity and student-centred facilities.

The Napier campus spans 28 hectares of landscaped grounds and purpose-built study spaces, including a welcoming Student Hub and library. Meanwhile, EIT's Auckland campus is ideally situated in the heart of the city, offering convenience and access to everything Auckland has to offer.

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, Learning Support Services and your International Student Support Officer who are here for you, within a learning environment where you are treated as an individual. They'll know your name and you'll receive one-on-one attention to make sure you get the support to succeed.

2. A degree is deemed to have a quantitative focus if it includes substantial coursework in mathematics, statistics, data analytics, programming, or quantitative research methods, and demonstrates the applicant's ability to apply quantitative reasoning to solve real-world problems. This is typically evidenced through multiple courses with mathematical or analytical content or through an applied quantitative research project.

A degree or equivalent (verified) professional qualification will be treated as quantitatively focused if the applicant completed:
- At least three (3) courses where quantitative reasoning was a significant component, OR
- One advanced course involving applied statistics, computation, or modelling OR
- A research project/industry placement that required quantitative analysis

Experienced Lecturers

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

EIT 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.

Lecturers in the School of Computing bring to their teaching a wide range of practical computing skills together with the appropriate qualifications. We value our partnership with students and aim to provide quality education in a supportive environment, encouraging personal growth and professional development.

Name	Qualification
Dr Noor Alani *Programme Coordinator*	PhD, MIT, BComSc, NZCertAdTT
Auckland Campus	
Dr Akbar Hossain	PhD, MSc (Telecommunication Engineering), BSc (Electrical and Electronic Engineering)
Dr Dobrila Lopez	PhD, MEng, GradDipIT, BE, CertIT
Hawke's Bay Campus	
Assoc Prof Emre Erturk	PhD, MS, BA
Assoc Prof Pii-Tuulia Nikula	PhD, MA, NZCertAdTT
Dr Amr van den Adel	PhD, MSc, BSc
Dr Stephen Zhu	PhD, MSc
Istvan Lengyel	MIT, PgDipSc
John Jamieson	MIT, BTech (Info Tech), NDipIT
Tairāwhiti Campus	
Dr Anastasia Mozhaeva	PhD, PGDipEd, MEng, BEng(Hons)

Programme Information

The Master of Applied Data Analytics and Postgraduate Diploma in Applied Data Analytics programmes are delivered as a coursework offering.

Master of Applied Data Analytics	**240 credits** A minimum of 90 credits at Level 9 with the remainder at Level 8
Master of Applied Data Analytics	**180 credits** A minimum of 45 credits at Level 9 with the remainder at Level 8
Postgraduate Diploma in Applied Data Analytics	**120 credits** A minimum of 75 credits at Level 8 with the remainder at Level 7

Listed in the Course Descriptions, are the schedules of courses for the postgraduate qualifications in Applied Data Analytics.

Students who decide to progress to the Master of Applied Data Analytics (MADA) will not be able to count their Level 7 credits towards the Master degree. The Level 7 options are only advised if there is an identified specific knowledge gap. Should students elect Level 7 courses, they would have to complete additional Level 8 courses towards the MADA.

EIT reserves the right to change timetables. Courses may be offered in different timeslots or cancelled if there are insufficient enrolments. Textbooks are required for several courses and the cost for textbooks is not included in the course fee.

Course Descriptions

NB: Courses may be delivered by lecturers who are based at either our Auckland or Hawke's Bay campuses. 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 8 Courses

Course No.	Brief Description	NZQA Level	No. of Credits
PGQM8.400	**Quantitative Methods and Contemporary Tools** The aim of this course is for students to develop knowledge and skills in quantitative data analysis techniques and contemporary tools used by organisations.	8	15
PGDAV8.100	**Data Analytics and Visualisation** The aim of this course is for students to develop advanced knowledge and skills in data analytics and data wrangling for effective data-driven decision making and data visualisation.	8	15
DAPG8.100	**Data Engineering** The aim of this course is for students to develop advanced theoretical knowledge and practical competencies to systematically identify, manipulate and curate complex data sets for sophisticated downstream analysis purposes.	8	15
PGWIL8.100	**Work Integrated learning** This course aims to support students in advancing their discipline specific knowledge and skills in a workplace context or with a client by investigating systems and processes to identify issues or problems and developing relevant recommendations.	8	15
DAPG8.200	**Analytics for Decision Making** The aim of this course is to provide students with the practical expertise in advanced analytical methodologies and strategic decision-making techniques for the complexities within business contexts.	8	15
DAPG8.300	**Data Governance and Sovereignty** The aim of this course is to provide students with advanced knowledge and skills to apply appropriate data governance and data sovereignty protocols that address compliance, security and the unique challenges of maintaining data sovereignty in Aotearoa New Zealand.	8	15
DAPG8.400	**Intelligent Analytics in Practice** The aim of this course is to provide students with contemporary knowledge and skills in Artificial Intelligence (AI) so that they are capable to create intelligent analytics systems focussing on solutions that transform complex data into strategic insights for organisational success.	8	15
PGWIL8.200	**Work Integrated learning 2** This course aims to support students in advancing their discipline specific knowledge and skills in a workplace context or with a client by investigating systems and processes to identify issues or problems and developing relevant recommendations.	8	30
PGRM8.100	**Applied Research Methods** The aim of the course is to provide students with knowledge and skills related to research methodologies appropriate for conducting research in a range of disciplines.	8	15

Level 9 Courses

Course No.	Brief Description	NZQA Level	No. of Credits
PGIP9.600	**Integrated Project** This course aims to support students in applying and further developing the knowledge and skills gained throughout the programme by reporting on or designing solutions for existing or emerging problems or issues within the industry or workplace.	9	45
PGSIP9.100	**Strategic Integrated Project** This course aims to support students in applying knowledge and technical skills to a strategic integrated project relevant to their area of study through advanced research, investigating complex/multifaceted/long-term issues or problems, and developing relevant strategic recommendations and solutions.	9	90