AIS AUCKLAND INSTITUTE OF STUDIES NEW ZEALAND

INFORMATION TECHNOLOGY

AIS delivers excellent Information Technology (IT) programmes using the latest software, delivered by staff with high academic qualifications and industry experience.

Studying IT at AIS opens up a world of opportunities for our students. Our programmes are an excellent way to begin or further develop a successful IT career either in New Zealand or overseas.

If you're considering working in New Zealand, it is worth noting that several occupations within the category of IT are on the Essential Skills in Demand Lists of Immigration New Zealand, with many of them specified on the Long Term Skill Shortage List. What this means, in short, is that New Zealand needs skilled IT professionals.

ON AVERAGE, THERE ARE BETWEEN 2,000 AND 3,000 IT ROLES REGULARLY ADVERTISED IN NEW ZEALAND.

To help students gain that extra advantage of New Zealand work experience, and qualify for many of these roles, we are able to offer some of our students internship opportunities. These have helped AIS students find well-paying jobs with attractive long-term career potential.

Student are also exposed to local industry through project-based learning, and guest speakers and class visits involving companies such as Absolute Analytics, Deloitte, Datamine, Mindfull, Future Lab and Hasbro. An industry placement course is also available to bachelor's students.

Our links with industry ensure that students graduate with the skills to meet industry needs.

2018

BACHELOR OF INFORMATION TECHNOLOGY

7.300 BACHELOR OF INFORMATION TECHNOLOGY

The Bachelor of Information Technology (BIT) prepares students to become IT professionals with a breadth of knowledge across a range of IT subdisciplines, and a depth of knowledge in one of three specialisations.

The **Computer Networking** specialisation equips students with skills in computer network engineering, server systems and network security. These skills are applicable to designing, implementing and maintaining computer networks at large and small organisations.

The **Information Systems** specialisation prepares students for the data-driven industry by equipping them with the analytical skills to develop and support organisations' IT and enterprise systems. These skills are applicable to the development and management of the software, hardware, and data that is vital to the operation of modern businesses.

The **Software Development** specialisation equips students with the skills to analyse, design, develop, test and deploy business software solutions. There is a continuing shortage of software developers in New Zealand and our students are educated to fill numerous roles in this industry. Software development is taught using the Python, Java and C# languages, in the .NET and Android environments.

IT students at AIS will gain skills allowing them to lead and become strong participants in IT team projects.

The programme comprises 23 courses, including:

- 7.101 The Information Technology System
- 7.102 Business Communication
- 7.103 Fundamentals of Computer Programming
- 7.104 Database Engineering I
- 7.105 Fundamentals of Computer Networking
- 7.106 Business Environment
- 7.107 Mathematics for Computing
- 7.202 System Testing
- 7.203 Computer Algorithms and Discrete Mathematics
- 7.217 Requirement Modelling
- 7.221 Operating Systems
- 7.301 Information Technology Project Management
- 7.320 Information Technology Project (completed over two semesters)

And:
- six courses from a selected specialisation (see right)
- four Information Technology elective courses

COMPUTER NETWORKS

- 13 compulsory courses (listed left)
- four Information Technology elective courses

STAGE 2
- 7.218 Server Administration
- 7.222 Intermediate Computer Networking
- 7.223 Fundamentals of Cloud Computing

STAGE 3
- 7.309 Network System Security
- 7.310 Advanced Computer Networking
- 7.311 Mobile Network Design

INFORMATION SYSTEMS

- 13 compulsory courses (listed left)
- four Information Technology elective courses

STAGE 2
- 7.201 Systems Analysis and Design
- 7.205 Object Oriented Programming
- one of
  7.219 E-Commerce Management
  7.220 Enterprise Resource Planning Systems

STAGE 3
- 7.312 Management Information Systems
- 7.314 E-Business Strategies
- 7.316 Business Intelligence

SOFTWARE DEVELOPMENT

- 13 compulsory courses (listed left)
- four Information Technology elective courses

STAGE 2
- 7.201 Systems Analysis and Design
- 7.205 Object Oriented Programming
- 7.206 Desktop Applications Development

STAGE 3
- 7.303 Web Applications Development
- 7.304 Human Computer Interaction
- 7.308 Mobile Applications Development

ELECTIVE COURSES

Elective courses may be selected from those listed under the other specialisations and the following:
- 7.209 Information Systems Security
- 7.214 Database Engineering II
- 7.215 Contact Centre Technology
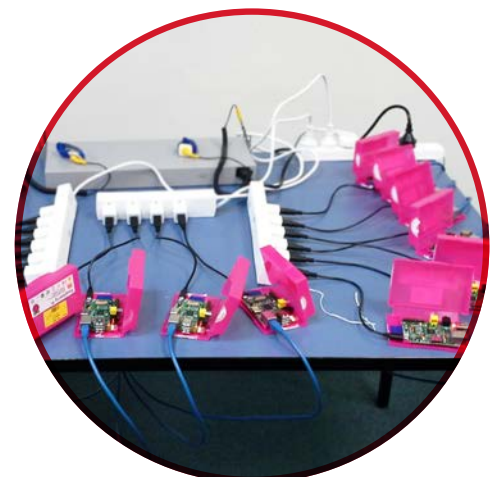- 7.322 Information Technology Industry Practice.

The inclusion of courses outside the Information Technology programme may be considered with the approval of the Academic Head of Programme.

Not all courses for the BIT are offered every semester.

DR MICHAEL WATTS

Academic Head of Information Technology Programmes

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Download all the latest information on our Information Technology programmes and an enrolment pack at: www.AIS.ac.nz

GRADUATE DIPLOMA

7.400 GRADUATE DIPLOMA IN INFORMATION TECHNOLOGY

The Graduate Diploma in Information Technology (GDIT) meets the needs of students who have either completed a bachelor's degree or similar qualification in a non-IT field and wish to develop their IT knowledge, or who hold a bachelor's degree in IT or similar qualification and wish to enhance their careers with further specialist studies in the field.

The specialisations offered under the BIT are available as topics in the GDIT programme.

Note: Cross-credits are not available in the GDIT. Students with prior studies in a subject will be given the opportunity to broaden their knowledge base by taking another course at the appropriate level with the approval of the Academic Head of Programme.

COMPUTER NETWORKS

- 7.105 Fundamentals of Computer Networking

STAGE 2
- 7.217 Requirement Modelling
- 7.218 Server Administration
- 7.222 Intermediate Computer Networking

STAGE 3
- 7.301 Information Technology Project Management
- 7.309 Network System Security
- 7.310 Advanced Computer Networking
- 7.321 Intensive Information Technology Project

INFORMATION SYSTEMS

- 7.104 Database Engineering I

STAGE 2
- 7.201 Systems Analysis and Design
- 7.217 Requirement Modelling
- 7.220 Enterprise Resource Planning System

STAGE 3
- 7.301 Information Technology Project Management
- 7.312 Management Information Systems
- 7.314 E-Business Strategies
- 7.321 Intensive Information Technology Project

SOFTWARE DEVELOPMENT

- 7.104 Database Engineering I

STAGE 2
- 7.205 Object Oriented Programming
- 7.206 Desktop Applications Development
- 7.217 Requirement Modelling

STAGE 3
- 7.301 Information Technology Project Management
- 7.303 Web Applications Development
- 7.308 Mobile Applications Development
- 7.321 Intensive Information Technology Project

BOTH THE BIT AND GDIT AT AIS ALLOW FOR PATHWAY INTO IT MASTER'S PROGRAMMES AT AUT OR UNITEC

7.400 GRADUATE DIPLOMA IN INFORMATION TECHNOLOGY

AUT UNIVERSITY AUCKLAND, NEW ZEALAND — **U** Unitec

7.300 BACHELOR OF INFORMATION TECHNOLOGY

BONGMOON (SAM) KIM

GRADUATE DIPLOMA IN INFORMATION TECHNOLOGY

It only took four days for Sam Kim to fall in love with New Zealand and decide he wanted to live here.

The former South Korean journalist enjoyed a brief visit to the North Island in 2014 and that was all it took for Sam to reassess his future.

"I was sick and tired of the competitive South Korean culture so New Zealand was very appealing to me. The people here were very friendly and the scenery was beautiful."

He returned home to South Korea and decided Information Technology (IT) would be an ideal career path to pursue. *"I wanted to do something practical. I used to enjoy studying computers when I was a teenager and I was curious about the network systems that operate behind computers. IT seemed to have a bright future in New Zealand with plenty of jobs available so I decided to do that."*

With the help of a Korean education agency, Sam discovered Auckland Institute of Studies. He liked the fact AIS was an NZQA Category 1 provider, the campus was not located in the busy central city, and a student hostel was available on-site.

The 30-year old remembers being "overwhelmed with joy" when he began his year-long AIS Graduate Diploma programme in May 2016.

Sam says the experienced lecturers helped equip him with theoretical and practical knowledge, and he was impressed with the high-spec laptop that was supplied to all IT students to complete their assignments.

He was also impressed that he and other student representatives were regularly given the chance to talk directly to the academic head of the programme about any issues or suggestions they had.

During his study Sam was selected for a 12-week internship by AIS's own IT department. He helped staff members and fellow students resolve problems with their laptops and mobiles.

All students receive a laptop loaded with Microsoft software

"That internship, combined with the quality of my programme, helped a lot when looking for a fulltime job. Having AIS on my CV really gave me a competitive edge."

Sam is now working as a service desk engineer at Westbourne IT Global Services in Auckland. He provides technical support to a multinational pharmaceutical company which has 8000 employees worldwide.

Sam also enjoyed the inclusive, multicultural nature of the AIS campus. *"Auckland is a very multicultural city so AIS is good practice for interacting with society. I would definitely recommend AIS."*

About Auckland Institute of Studies

Category 1 is the highest accreditation the New Zealand government can give to an education provider which means you can be assured of the quality of programmes at AIS.

Established in 1990, AIS is one of New Zealand's largest independent degree-granting institutions offering a wide range of qualifications.

We are located in central Auckland and operate from two campuses – St Helens and Asquith. Our flexible three-semester system allows students to fast-track their studies and to get a head start on their careers. We provide assistance to students on all employment issues during and after their studies – this includes arranging interviews and internships with potential employers.

We ensure that a friendly nurturing environment balances and supports our rigorous and demanding academic programmes. Students at AIS experience expert personalised education – our knowledgeable and approachable teaching faculty value personal contact with students.

We give our students everything needed to succeed and ensure that studying at AIS is a uniquely rewarding experience.

What AIS offers:

- Great value
- Individual focus
- Employment assistance
- Internships
- Fast-track programmes
- Flexible entry dates
- Scholarships and excellence awards
- Cross-credits
- On-site accommodation
- Easy access to transport
- Ample on-site parking

NZQA CATEGORY 1 RATED DEGREES & DIPLOMAS

Our Programmes

Graduate
- Graduate Diploma in Business
- Graduate Diploma in Tourism Management
- Graduate Diploma in Hospitality Management
- Graduate Diploma in Information Technology

Undergraduate
- Bachelor of Business
- Bachelor of Hospitality Management
- Bachelor of Information Technology
- Bachelor of Tourism Management
- New Zealand Diploma in Hospitality Management (L5 & 6)
- New Zealand Diploma in Tourism and Travel (L5 & 6)

Postgraduate
- Master of Business Administration
- Postgraduate Diploma in Business Administration

Certificates
- TESOL
- Food and Beverage Service (Café Services) (L3)
- Licence Controller Training (LCQ)
- Barista Skills
- Food Safety

English Language
- General English - Beginners to Advanced
- IELTS Preparation
- English for Academic Purposes I (EAPI)
- English for Academic Purposes II (EAPII)

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Qualification	NZQA Level	Duration	2018 Intakes	Entry Requirements	Docs Req	Work Options	Outcomes	Pathways	Immigration Benefits*	Fees (NZD)
BACHELOR OF INFORMATION TECHNOLOGY	Level 7	3 years (7-9 semesters**)	30 Jan, 21 May, 10 Sep	• A minimum of 14 NCEA credits in each of 3 subjects at Level 3 including 9 credits in mathematics, and a minimum of 14 numeracy credits at Level 1 or higher, and a minimum of 8 literacy credits at Level 2 or higher; or • Successfully undertaken tertiary study, including mathematics at a level equivalent to 9 credits at Level 3; or • Successful completion of a Level 4 qualification in Computing; or • Equivalent overseas qualification; and • IELTS 6.0 with no band below 5.5 / Pearson 50 / TOEFL iBT 60 (with a writing score of 18) / TEP 52 with no band below 12 (approved countries only); and • 17 years or over	Application form + passport copy + school final transcripts + English test results	20hrs per week on student visa + full-time during semester breaks + 12 mths post-study work visa	IT positions such as software programmer, software developer, software analyst, software designer, web developer, web architect, enterprise web consultant, web service developer, web analyst, network engineer, network administrator, network support specialist, junior IT manager, IT manager and business analyst	Graduate Diploma in Business or Tourism Management or Postgraduate Diploma/Masters at Unitec or AUT or Auckland ICT Graduate School	50 points + 10 bonus points for degree + spouse open work visa + subsidised school education for children of spouse visa holder (not student visa holder) (Long Term Skills Shortage List)	International: $18,600 (per 120 credits / 1 year of full-time study) Domestic: $5,760 (per 120 credits / 1 year of full-time study)
GRADUATE DIPLOMA IN INFORMATION TECHNOLOGY	Level 7	1 year (3 semesters)	30 Jan, 21 May, 10 Sep	• Bachelor degree at least equivalent to New Zealand pass standard; and • IELTS 6.0 with no band below 5.5 / Pearson 50 / TOEFL iBT 60 (with a writing score of 18) / TEP 52 with no band below 12 (approved countries only) • Candidates without a Bachelor degree but with an appropriate mix of a lesser qualification and work experience may be approved for special admission by the Academic Board	Application form + passport copy + graduation transcripts + English test results	20hrs per week on student visa + full-time during semester breaks + 12 mths post-study work visa	IT positions such as software programmer, software developer, software analyst, software designer, web developer, software architect, enterprise web consultant, web service developer, web architect, enterprise web consultant, network administrator, network support specialist, junior IT manager, IT manager and business analyst	Postgraduate Diploma/Masters at AUT or Unitec	50 points	International: $19,600 Domestic: $6,260

*Subject to Immigration New Zealand policy. Bachelor degree (level 7) bonus points require a minimum of two years full time study in NZ.

**With approval from the Academic Head of Programme, students can choose to take on a more intensive study schedule and shorten their study period by up to two semesters.

1. SPECIAL ADMISSION - Students who do not meet the entry criteria may apply for Special Admission and provide additional information on employment and life experience in support of their application.
2. TEP - Students without IELTS, TOEFL, Cambridge, Pearson or other approved bridging programme may sit the AIS Test of English Proficiency (TEP) to confirm their English level for entry to programmes (approved countries only).