



Bachelor of Networking and Telecommunications (BNeT)

CRICOS Course Code	0101638
Course Id	CRS1400451
Australian Qualifications Framework (AQF)	Upon successful completion, the award conferred is recognised in the AQF at Level 7
Full Time	3 years (6 Semesters)
Part Time	6 years (Domestic students only – see below) (12 Semesters)
Units	24
Credit points	240 credit points
Campus Location	Level 16, 233 Castlereagh Street, Sydney 2000
English Language Requirements	IELTS 6.0 overall with no band less than 6.0
Delivery mode	Blended: on-campus face-to-face with some online content and activities
Outcome	Bachelor of Networking and Telecommunication
Pathways post completion	This Degree upon successful completion will meet AQF requirements of an AQF level 7 that would allow a pathway to postgraduate studies including Graduate Certificate, Graduate Diploma or Master's degree.
Financing Options	This course is offered as a Fee for service course and is available to both Domestic and International Students.
Intakes	PIA accepts intakes each semester into this Degree

Course Overview

The Bachelor of Networking and Telecommunications (BNeT) course is grounded in foundational mathematics, programming, networking and telecommunications units. These skills and knowledge are then built on in a series of units covering the main areas of today's Networking and Telecommunications industry, including the following: cloud computing; wireless and mobile technologies; operating systems; IP networks; switched and routed networks; optical transmission networks; MPLS networking; and Voice over IP.

Career Outcomes

A career in one of the fastest growing professions. The rapid development and evolution in global information structures, cloud, web, and mobile technologies has seen businesses (Telcos, retailers, banks, educational institutions and so on) all face major challenges in providing networks that are accessible and secure. The need for specialists who can design, build, maintain, support, and protect these networks is growing.

Course Learning Outcomes

CLO1	A demonstrate your understanding of a body of knowledge including recent developments in the area of networking and telecommunications networks
CLO2	Demonstrate a developed understanding of the principles of networks and telecommunications engineering

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CLO 3	Demonstrate an understanding of the principles underlying the planning and management of networks and telecommunications
CLO 4	Apply mathematical and computational skills necessary for the solution of theoretical and practical problems
CLO 5	Demonstrate creativity and initiative in application of analytical, problem-solving and design skills to networks and telecommunications
CLO 6	To successfully work independently with personal accountability in solving problems in networks and telecommunications
CLO 7	Demonstrate high-level oral and written communication skills
CLO 8	To apply your knowledge to design, investigate and solve specific problems in the area of networking and telecommunications and their applications through directed studies or projects in the form of internships with industry or research providers.

Graduate attributes

GA 1	Communicate effectively in a diverse range of professional or community context
GA 2	Complete work tasks and assignments independently or as an effective member of multidisciplinary teams
GA 3	Engage in and value life-long learning leading to the enhancement of professional knowledge and skills
GA 4	Are information and technology literate
GA 5	Respond appropriately to a changing workforces, cultures and values reflecting a global work environment
GA 6	Demonstrate critical thinking, problem solving and decision-making abilities essential to contributing soundly to the resolution of issues confronting organisations
GA 7	Facilitate intellectual curiosity
GA 8	Act in an ethical manner in all aspects of professional life.

Accreditation

The Bachelor of Networking and Telecommunications is accredited by the [Tertiary Education Quality and Standards Agency \(TEQSA\)](#):



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The Diploma of Networking Technology is accredited by the [Tertiary Education Quality and Standards Agency \(TEQSA\)](#).

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Course Structure

UNIT CODE		UNIT NAME	CORE / ELECTIVE	PRE-REQUISITES
YEAR 1 (Semester 1 or 2)				
1	ICT100	Fundamentals of computer system hardware and software	Core	None
1	NTW100	Introduction to computer networking	Core	None
1	ICT101	Mathematics for computing	Core	NSW HSC Band 4 for English and Band 3 in Advanced Mathematics or Band 4 in Standard 2 Mathematics or equivalent
1	GBU100	Professional Business Communications	Core	None
2	NTW101	Principles of network administration	Core	NTW100
2	ICT102	Foundations of programming	Core	None
2	ICT103	Introduction to telecommunications systems	Core	None
2	GBU200	Business ethics and corporate social responsibility	Core	None
YEAR 2 (Semester 1 or 2)				
1	ICT200	Cloud computing	Core	ICT102, ICT103, NTW100
1	NTW202	Mobile and wireless technologies	Core	ICT103, NTW100
1	ICT201	Operating Systems and administration	Core	ICT100, ICT101
1	NTW201	Scalable IP networks	Core	ICT103, NTW100
2	NTW200	Implementing switched and routed networks	Core	NTW100, NTW101
2	NTW203	Network Security	Core	NTW101
2	ICT202	Enterprise virtualisation	Core	ICT103, NTW100
2	ICT300	Broadband access technologies and networks	Core	ICT103, NTW100
YEAR 3 (Semester 1 or 2)				
1	NTW300	Optical transmission networks	Core	ICT103, NTW100
1	NTW301	Multiprotocol Label Switching (MPLS) Networking	Core	NTW201
1	NTW302	Interior routing protocols and their implementation	Core	NTW201
1	NTW303	Telecommunications network management	Core	NTW101
2	PDV300	ICT Project	Core	ICT101, GBU100, ICT102, ICT200, NTW202, ICT201, NTW201, NTW200, NTW203, ICT202, and ICT300
2	ITC303	Unified Communications	Core	ICT103, NTW100
2	ITC304	Long Term Evolution (LTE) Technologies	Elective	NTW202



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	NTW304	Border gateway protocols (BGP)	Elective	NTW302
	NTW305	Virtual private LAN services (VPLS)	Elective	NTW301
	NTW306	Quality of service (QOS)	Elective	NTW301, NTW302
	NTW307	Optical network design and planning	Elective	NTW300
	NTW308	Radio network design and planning	Elective	NTW202



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Please Note

- The program is available each intake but note that some units of study are subject to quotas and minimum enrolment requirements.
- Not all units of study are available every semester, and changes in course structure occur from time to time.

Exit Outcomes

To obtain the Bachelor of Networking and Telecommunications (BNeT), candidates are required to successfully complete all 24 units (with a minimum of 12 units, 50%, completed at the Institute). Not all units are offered each semester. If you complete the 8 100 level units with the Institute (either at the Institute or with Advanced Standing not exceeding 4 of the 100 level units), you will be eligible to obtain the Diploma of Networking Technology (DipNT).

International Student Duration

The CRICOS-registered duration is 156 weeks or 3 years of full-time study (6 semesters). Please note the part time mode is not available to a holder of a student visa, who is not a citizen of Australia or New Zealand, or who is not an Australian permanent resident, or who is a temporary resident of Australia.

Domestic Student Duration

For domestic students the BNeT course is 3 years full-time or 6 years part-time.

Device Specifications

Networking and Telecommunication	
Operating system	Windows 10, 11
	Mac OS 10.12 Sierra, 10.13 High Sierra, 10.14 Mojave, or 10.15 Catalina
Browser	Safari, Chrome, and Firefox - current version
	Microsoft Edge - latest version
	Internet Explorer - current or immediately previous version
Computer and processor	1 GHZ or faster x86 or 64-bit processor with SSE2 instruction set
Memory	Minimum 8 GB RAM (64-bit), 16 GB(Recommended)

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Disk space	Minimum 500 gigabytes (GB)
Monitor resolution	1024 x 768

Delivery Method

Type	Explanation
Blended	Blended: on-campus face-to-face with some online content and activities The campus delivered location is level 16, 233 Castlereagh Street Sydney

Assessment Methods

The Institute uses authentic assessment principles that may include practical exercises, case studies, presentations, reports, online simulations, essays, and examinations. These may include being done under invigilation.

Entry Requirements

- Successful completion of an Australian senior secondary qualification (or recognised equivalent) with the equivalent of a minimum Australian Tertiary Admission Rank (ATAR) of 60 and
 - NSW (or equivalent) Band 4 Standard English; and
 - NSW (or equivalent) Band 3 Advanced Mathematics; **or**
 - NSW (or equivalent) Band 4 Standard 2 Mathematics.
- An equivalent secondary qualification overseas that also meets the mathematics requirement above; or
- An accredited Tertiary Preparation Program or a Foundation Year Program offered by an accredited Australian provider that also meets the mathematics requirement above; or
- One year of completed accredited full-time study at a registered institution of tertiary education at AQF level 5 or above that also meets the mathematics requirement above.

International Students

Students who have not completed an Australian Year 12 qualification may be admitted into the program through the flexible entry mode.

- An equivalent secondary qualification overseas; or
- An accredited Tertiary Preparation Program or a Foundation Year Program offered by an Australian university; or
- One year of successful full-time study in an accredited course at a university or other higher education provider; or
- Admission to candidature for an undergraduate degree at an Australian university

Special/Alternative Admission Arrangements

Applicants who are 21 years of age or over who have not completed Year 12, or its equivalent may gain entry to a course by addressing one of the following entry requirements:

1. Successful completion of a Special Tertiary Admissions Test administered by a tertiary admissions centre; or

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2. Submission of a portfolio of prior and current academic and professional work; or

Applicants applying under special admission categories will be required to attend an interview with the Dean to assess the applicant's capacity for higher education studies. The applicant should submit a portfolio of prior and current academic and professional work prior to the interview to assist in the assessment process.

The criteria used by the Dean when approving applicants for admission into a course under special or alternative admission arrangements include:

- capacity to pursue tertiary studies;
- motivation to pursue tertiary studies in the discipline of the chosen course;
- demonstrated potential for academic studies based on the applicant's portfolio;
- relevant professional and industry experience; and
- specific consideration of access issues for ATSI's.

Language requirements

Language proficiency

- IELTS Academic: 6.5 with no band less than 6.0; or
- TOEFL: 575 or better; or
- TOEFL IBT (International Benchmark Test): 91 or better; or
- TOEFL CBT (Computer Based Test): 235 or better; or
- Academic PTE (Pearson Test of English): 58 or better; or
- Cambridge English: CAE and CPE (from 2015): 176 or better; or
- General Certificate of Education (GCE): A Levels with a C or better in English; or
- KITE: all bands B2 with a result greater than 450 in each band; or
- Duolingo: overall 115 with no band less than 110.

English Language Test results are valid for two years from the date of the results up to the date of commencement at the Institute. The most recent test supersedes ALL previous tests.

Attendance Requirements

The Institute has enforceable requirements in relation to attendance. Further details are provided at Item 20 of the Terms and Conditions.

Advance Standing

Granting credit for prior learning ensures that students commence study at a level that appropriately recognises their prior learning experiences and are not required to repeat equivalent learning successfully undertaken in another context. Process for applying for Advance Standing (credit) can be found in the [Advanced Standing Policy and Procedure](#)

Fees

The course fees (per semester) are indicated on the fees page of our [website](#) and are based on a standard full-time study load and duration. Your course fees and duration may vary if you have applied for and been

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granted Advanced Standing. Tuition fees may increase during your studies. Students are advised in advance of any increase in tuition fees being implemented.

Further Information

For further information please contact:

Polytechnic Institute Australia Pty Ltd

CRICOS: 03535M

TEQSA provider number: PRV14049

ABN: 34 145 333 795

Head office and postal address

Level 16, 233 Castlereagh St

Sydney NSW 2000

Ph: (+612) 8319 8202

Email: info@pia.edu.au

