Bachelor of Information Technology and Systems
ICA70112 CRICOS Code 085576A

The Bachelor of Information Technology and Systems (BITS) focuses on delivering knowledge and skills in computer networking, application development and computer-based software to meet the current IT industry needs. The course ensures that graduates develop a broad and coherent body of knowledge in the underlying principles and concepts of information technology. It provides students with the opportunity to explore and identify critical IT industry demands and to understand how these demands are met.

The degree offers units across the complete spectrum of information technology and systems, including the study of hardware, software, networking, security, database and programming technologies and includes relevant cognitive, technical and communication skills. The course is designed to produce graduates who have a strong industry focus and who have demonstrated the full range of knowledge and skills gained through a relevant project in the final year. It also prepares the candidate for IT industry certifications in the fields of networking, systems administration and programming.

Entry Requirements
We ensure that all accepted applicants are capable of completing their program of study. A range of criteria is used to determine applicant’s eligibility.

Essential Criteria
Successful completion of Australian Year 12 (e.g. VCE, VCAL) or equivalent.

Age: 18 years or older at commencement of course.
English: Australian Year 12 equivalent.
Mathematics: Australian Year 11 equivalent.

Other Criteria
Non Year 12 (e.g. transfer, mature age, TAFE) domestic applicants must complete “VTAC Personal History online”.

International applicants and applicants with English as their second language need to meet IELTS criteria of band score of 6.0 with no band less than 5.5 or equivalent.

The applicant’s Academic Tertiary Admission Rank (ATAR) would be considered where applicable.

Applicants may be required to attend an interview.

Duration
3 years (full time) or 2 years* (fast-track)
*Subject to meeting criteria and availability

Delivery Location
VIT City Campus
123 Queen Street, Melbourne
Course Units

CORE UNITS

LEVEL 1
- ITSJ1001 Introduction to Computer Systems & Networking
- ITAP1001 Software Development Fundamentals
- ITDA1001 Database Fundamentals
- ITSU1005 Design & Create Organisational Documentation
- ITSU1003 IT Professional Practice
- ITNE1001 Network Architecture
- ITSA1001 Server Administration Fundamentals
- ITAP1004 Website Development

LEVEL 2
- ITSU2004 Systems Analysis & Design
- ITSU2006 Project Management

LEVEL 3
- ITSU3007 Manage IT Projects
- ITSU3008 Project 1
- ITSU3009 Project 2

ELECTIVE UNITS

STREAM 1 - NETWORKING

LEVEL 2
- ITNE2002 Network & Information Security
- ITNE2003 Install, Configure, Operate & Troubleshoot medium-size Networks
- ITNE2005 Develop a Security Infrastructure for a medium-size Network
- ITSA2003 Network Operating System & Configuration
- ITSA2005 Planning & Implementing Server
- ITSA2006 Server Virtualization

LEVEL 3
- ITNE3006 Design Network Infrastructure
- ITNE3007 Advanced Routing
- ITNE3008 Advanced Switching
- ITNE3004 Wireless Communication & Networks
- ITNE3013 Advanced Network & Infrastructure Security

STREAM 2 - APPLICATION DEVELOPMENT

LEVEL 2
- ITAP2002 Introduction to Windows Application Development
- ITAP2003 Introduction to Web Application Development
- ITAP2005 Java Programming Fundamentals
- ITSU2010 Technical Documentation for Software Engineers
- ITAP2008 Software Testing
- ITAP2013 Software Engineering

LEVEL 3
- ITAP3006 Advanced Java Programming
- ITAP3010 Developing Data Access Solutions
- ITAP3011 Developing Windows Applications
- ITAP3012 Developing Web Applications
- ITAP3009 Software Analysis, Design & Architecture

Qualification Rule

144 Credit Points – 24 subjects (units) – including all core units must be successfully studied:

Core Units: 13
Elective Units: 11

In addition to the core units, students can elect to specialise either the Networking or Application Development streams.

Career Opportunities

This qualification provides the skills and knowledge to administer and manage computer systems support in small- to-medium enterprises (SMEs).

Persons working at this level provide a broad and specialised ICT support function, applying a wide range of professional and technical skills in information technology areas such as systems administration, networking, IT support and application development.

Successful completion of this degree course would equip graduates to undertake professional roles in SMEs such as: Network Engineer, Systems Administrator and Systems Engineer (Networking Stream), Software Developer, IT Consultant and Software Tester (Application Development Stream).