

COURSE DELIVERY PLAN 2024

Bachelor of Information Technology

COURSE CODE: NBIT

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|----------------------------|---|
| CAMPUS | Footscray Park (FP) |
| COLLEGE | College of Engineering and Science |
| STUDY MODE | Full Time or Part Time |
| DURATION | 3 years Full Time or Part Time equivalent |
| FEE TYPE | For information on course fees, refer to http://vu.edu.au/fees |
| APPLICATION METHOD | VTAC - https://vtac.edu.au Direct Application - https://gotovu.custhelp.com/app/landing |
| TIMETABLE | vu.edu.au/timetables |
| COURSE REQUIREMENTS | To attain the Bachelor of Information Technology, students will be required to complete 288 credit points consisting of: <ul style="list-style-type: none">• 96 credit points of First Year Core studies;• 48 credit points of Graduating Core studies;• 96 credit points of Major studies;• 48 credit points of Minor studies (discipline). |
| FURTHER INFORMATION | Unit and course information is available from the University course search site at http://vu.edu.au/course-search or go to https://askvu.vu.edu.au or Phone VUHQ on 03 9919 6100 |
| COURSE CHAIR | Course Chair: Dr Khandakar Ahmed |
| COURSE ADVICE | AskCUA |

Note: Students are required to enrol in all units for semester 1 and 2, and are not permitted to enrol in more than 48 credit points per semester as a full-time load.

Core/Elective Core (a unit that must be completed) & Elective (you have some choice in what you select).

Prerequisites A number of units within the degree have 'prerequisites'. These prerequisites must be met before enrolment in the unit is permitted. Generally these prerequisites require the successful completion of a unit or units taken at an earlier stage in the course. Students should pay particular attention to these prerequisite requirements as failure to meet these can seriously hinder progression through the course.

Date of Publication: This information is current at the publication date: 20/10/2022. It is provided as information only and does not form part of a contract between any person and Victoria University.



VICTORIA UNIVERSITY

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Victoria University CRICOS Provider No. 00124K (Melbourne), 02475D (Sydney and Brisbane)

COURSE DELIVERY PLAN 2024

YEAR 1

| UNIT CODE | UNIT TITLE | UNIT TYPE | SEM | CREDIT POINTS | CAMPUS | PRE-REQUISITES |
|-----------|--|-----------|-----|---------------|--------|----------------|
| NIT1102 | Introduction to Programming | Core | 1B1 | | | |
| NIT1103 | Communication and Information Management | Core | 1B2 | 12 | FP | |
| NIT1104 | Computer Networks | Core | 1B3 | 12 | FP | |
| NIT1101 | Web Development and CMS | Core | 1B4 | 12 | FP | |
| NIT1201 | Introduction to Database Systems | Core | 2B1 | 12 | FP | |
| NIT1202 | Operating Systems | Core | 2B2 | 12 | FP | |
| NIT1203 | Introduction to Project Management | Core | 2B3 | 12 | FP | |
| NIT1204 | Web Application and Server Management | Core | 2B4 | 12 | FP | NIT1101 |

Students commencing in **Semester 2, Block 1 (2B1)** should enrol as per the below sequence pattern:

- 2B1 – NIT1102 - Introduction to Programming
- 2B2 – NIT1101 - Web Development and CMS
- 2B3 – NIT1204 - Web Application and Server Management
- 2B4 – NIT1203 - Introduction to Project Management

If the above sequence is full try:

- 2B1 – NIT1102 - Introduction to Programming
- 2B2 – NIT1101 - Web Development and CMS
- 2B3 – NIT1203 - Introduction to Project Management
- 2B4 – NIT1204 - Web Application and Server Management

In 2025, you enrol:

- 1B1 – NIT1201 - Introduction to Database Systems
- 1B2 – NIT1103 - Communication and Information Management
- 1B3 – NIT1104 - Computer Networks
- 1B4 – NIT1202 - Operating Systems

Students commencing in **Semester 2, Block 3 (2B3)** should enrol as per the below sequence pattern:

- 2B3 – NIT1102 - Introduction to Programming
- 2B4 – NIT1203 - Introduction to Project Management

In 2025, you enrol:

- 1B1 – NIT1201 - Introduction to Database Systems
- 1B2 – NIT1101 - Web Development and CMS
- 1B3 – NIT1103 - Communication and Information Management
- 1B4 – NIT1104 - Computer Networks

Students must adhere to the above sequence patterns when enrolling units.



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COURSE DELIVERY PLAN 2024

YEAR 2

| UNIT CODE | UNIT TITLE | UNIT TYPE | SEM | CREDIT POINTS | CAMPUS | PRE-REQUISITES |
|-----------|------------------|--------------------------|-----|---------------|--------|----------------|
| | Major 1 - Unit 1 | Major | | 12 | | |
| | Major 1 - Unit 2 | Major | | 12 | | |
| | Minor 1 - Unit 1 | Graduating Core Minor | | 12 | | |
| | Minor 2 - Unit 1 | Minor | | 12 | | |
| | Major 1 - Unit 3 | Major | | 12 | | |
| | Major 1 - Unit 4 | Major | | 12 | | |
| | Minor 1 - Unit 2 | Graduating Core Minor | | 12 | | |
| | Minor 2 - Unit 2 | Minor | | 12 | | |

YEAR 3

| UNIT CODE | UNIT TITLE | UNIT TYPE | SEM | CREDIT POINTS | CAMPUS | PRE-REQUISITES |
|-----------|------------------|--------------------------|-----|---------------|--------|----------------|
| | Major 1 - Unit 5 | Major | | 12 | | |
| | Major 1 - Unit 6 | Major | | 12 | | |
| | Minor 1 - Unit 3 | Graduating Core Minor | | 12 | | |
| | Minor 2 - Unit 3 | Minor | | 12 | | |
| | Major 1 - Unit 7 | Major | | 12 | | |
| | Major 1 - Unit 8 | Major | | 12 | | |
| | Minor 1 - Unit 4 | Graduating Core Minor | | 12 | | |
| | Minor 2 - Unit 4 | Minor | | 12 | | |



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COURSE DELIVERY PLAN 2024

List of **compulsory minor/s** available in this course

NMIITC Graduating Core

List of **major/s** available in this course

NMANSC Network and System Computing

NMAWMD Web and Mobile Application Development

This course does not offer Cyber Security as a Major

List of **minor/s** available in this course

NMIASD Software Development – cannot take this option if taking NMAWMD Major

NMIANM Network Management – cannot take this option if taking NMANSC Major

NMIICT ICT Management

Students in this course pick One Major and One Minor option. Once selected you can go to the page that relates to this option for the correct enrolment into your required sequence pattern. Ensure that you enrol Year 2 units before Year 3.

Year 2 – for example NIT2- - - -

Year 3 – for example NIT3 - - - -

You should be enrolling the below each year:

x 4 Major Units

x 2 Graduating Core Units

x 2 Minors Units

International students should be enrolling In-Person units only and only taking the online option if there is no other option.



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COURSE DELIVERY PLAN 2024

IT MAJORS

Network and System Computing NMANSK

This major provides students with advanced knowledge and skills in network and system computing through an integrated set of units in networking and network management. It builds on the Bachelor of Information Technology foundations including computer networks, programming, database systems and operating systems. Students will study server management, enterprise network management, routing and switching, IPv6, mobile and wireless networks, network design, Internet of Things, network security and virtualisation. It will prepare students for Microsoft and Cisco certificates like Microsoft Server Administration, Microsoft Active Directory, Microsoft HyperV, CCNA, CCNA Wireless and CCNA Security. Furthermore, they will apply practical and contemporary technologies to develop solutions to real world problems in their capstone final year projects.

| UNIT CODE | UNIT TITLE | UNIT TYPE | SEM | CREDIT POINTS | CAMPUS | PRE-REQUISITES |
|-----------|--------------------------------------|-----------|---------------|---------------|--------|---------------------------------|
| NIT2122 | Server Administration and Management | Major | 1B2, 1B4 | 12 | FP | NIT1202 |
| NIT2124 | Network Management | Major | 1B4 | | FP | NIT1104 |
| NIT2202 | Big Data | Major | 2B1, 2B3, 2B4 | 12 | FP | NIT1102; or NIT1201 |
| NIT2222 | Networking Technologies | Major | 2B1, 2B2, 2B4 | 12 | FP | NIT1104 |
| NIT3114 | Online Business System Development | Major | 1B1, 1B2, 2B2 | 12 | FP | NIT1204; or NIT2112; or NIT2213 |
| NIT3122 | Enterprise Network Management | Major | 1B3 | 12 | FP | NIT2122 |
| NIT3202 | Data Analytics for Cyber Security | Major | 2B1 | 12 | FP | NIT2102; and NIT2202 |
| NIT3222 | Virtualisation in Computing | Major | 1B2, 2B1, 2B2 | 12 | FP | NIT2122; or NIT2222 |



COURSE DELIVERY PLAN 2024

Web and Mobile Application Development NMAWMD

This major provides students with advanced knowledge and skills in web and mobile application development through an integrated set of units in web and mobile application development. It builds on the Bachelor of Information Technology foundations including computer networks, programming, database systems and operating systems. Students will study object oriented programming, software engineering, web programming, mobile app programming, cloud app programming and database systems. Furthermore, they will apply practical and contemporary technologies to develop solutions to real world problems in their capstone final year projects.

| UNIT CODE | UNIT TITLE | UNIT TYPE | SEM | CREDIT POINTS | CAMPUS | PRE-REQUISITES |
|-----------|-------------------------------------|-----------|---------------|---------------|--------|---------------------------------|
| NIT2112 | Object Oriented Programming | Major | 1B1, 1B2 | 12 | FP | NIT1102 |
| NIT2113 | Cloud Application Development | Major | 1B3, 1B4 | 12 | FP | NIT1102; or BCO1102 |
| NIT2202 | Big Data | Major | 2B1, 2B3, 2B4 | 12 | FP | NIT1102; or NIT1201 |
| NIT2213 | Software Engineering | Major | 2B1, 2B4 | 12 | FP | |
| NIT3112 | Advance Web Application Development | Major | 1B2, 1B3 | 12 | FP | NIT2112; and NIT2213 |
| NIT3114 | Online Business System Development | Major | 1B1, 1B3 2B2 | 12 | FP | NIT1204; or NIT2112; or NIT2213 |
| NIT3202 | Data Analytics for Cyber Security | Major | 1B2, 2B1, 2B2 | 12 | FP | NIT2102; and NIT2202 |
| NIT3213 | Mobile Application Development | Major | 2B2, 2B3 | 12 | FP | NIT2112; or NIT2213 |



COURSE DELIVERY PLAN 2024

MINORS:

Complete the Graduating Core Minor and select ONE (1) of the following Discipline Minors:

Graduating Core NMIITC

This minor provides students the opportunity to articulate the role of the IT profession within the local and global communities by bringing together the knowledge and skills acquired in earlier units and apply them to solve the real-world problems in Capstone IT projects. Students will also study core knowledge and skills such as security, ethics and other areas important for IT professionals.

| UNIT CODE | UNIT TITLE | UNIT TYPE | SEM | CREDIT POINTS | CAMPUS | PRE-REQUISITES |
|-----------|---------------------------|-----------|---------------|---------------|--------|----------------|
| NIT2102 | Cyber Security Essentials | Minor | 1B1, 1B2, 1B3 | 12 | FP | NIT1104 |
| NIT2201 | IT Profession and Ethics | Minor | 2B1, 2B2, 2B3 | 12 | FP | |
| NEF3001 | Applied Project 1 | Minor | 1B1, 1B4, 2B4 | 12 | FP | |
| NEF3002 | Applied Project 2 | Minor | 1B1, 2B1, 2B4 | 12 | FP | NEF3001 |

Software Development NMIASD

The minor prepares students for careers in software engineering. Students will be provided with broad and coherent knowledge in contemporary software modelling techniques and specialised software development technologies. Modules include object-oriented programming, web programming and mobile application development. Students will also have opportunity to work on a productive software development team by applying the core principles consistent in software design, construction and maintenance.

| UNIT CODE | UNIT TITLE | UNIT TYPE | SEM | CREDIT POINTS | CAMPUS | PRE-REQUISITES |
|-----------|-------------------------------------|-----------|----------|---------------|--------|----------------------|
| NIT2112 | Object Oriented Programming | Minor | 1B1, 1B2 | 12 | FP | NIT1102 |
| NIT2213 | Software Engineering | Minor | 2B1, 2B4 | 12 | FP | |
| NIT3112 | Advance Web Application Development | Minor | 1B2, 1B3 | 12 | FP | NIT2112; and NIT2213 |
| NIT3213 | Mobile Application Development | Minor | 2B2, 2B3 | 12 | FP | NIT2112; or NIT2213 |



COURSE DELIVERY PLAN 2024

Network Management NMIANM

The network management minor provides students with broad understanding of the operation, administration and maintenance of network systems. The students will study specialised and in depth technologies in network management, including routing algorithms and protocols, Network Address Translation (NAT), IPv6 networks, Microsoft server management, Microsoft enterprise network management and Microsoft HyperV virtualisation.

| UNIT CODE | UNIT TITLE | UNIT TYPE | SEM | CREDIT POINTS | CAMPUS | PRE-REQUISITES |
|-----------|--------------------------------------|-----------|---------------|---------------|--------|---------------------|
| NIT2122 | Server Administration and Management | Minor | 1B2, 1B4 | 12 | FP | NIT1202 |
| NIT2222 | Networking Technologies | Minor | 2B1, 2B2, 2B4 | 12 | FP | NIT1104 |
| NIT3122 | Enterprise Network Management | Minor | 1B3 | 12 | FP | NIT2122 |
| NIT3222 | Virtualisation in Computing | Minor | 1B2, 2B1, 2B2 | 12 | FP | NIT2122; or NIT2222 |

ICT Management NMICT

The ICT management minor provides students the opportunity to explore the depth and breadth in planning, risk management and change control in small IT business. It is designed to equip students with the analytic, communication and project management skills to tame the IT-business interface. Furthermore, students will develop ICT service agreements to manage a collaborative relationship between an IT department and others. They will exhibit professional capacity to promote sustainable procurement practice, ensure the desired organizational outcomes and reduce administrative overheads.

| UNIT CODE | UNIT TITLE | UNIT TYPE | SEM | CREDIT POINTS | CAMPUS | PRE-REQUISITES |
|-----------|---|-----------|---------------|---------------|--------|--|
| NIT2171 | Introduction to ICT Management | Minor | 1B1, 1B3, 1B4 | 12 | FP | |
| NIT2271 | ICT Change Management | Minor | 2B1 | 12 | FP | |
| NIT3171 | ICT Business Analytics and Data Visualisation | Minor | 1B3, 1B4 | 12 | FP | NIT2202; or BAO2001; and NIT2171; or NIT2271 |
| NIT3274 | Small IT Business | Minor | 2B4 | | ORT | NIT2171; or NIT2271 |

