

COURSE DELIVERY PLAN 2024

Bachelor of Information Technology

COURSE CODE: NBIT

CAMPUS	Footscray Park (FP), VU Brisbane (VUB) and VU Sydney (VUS)
COLLEGE	College of Arts, Business, Law, Education and IT
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	<p>To attain the Bachelor of Information Technology, students will be required to complete 288 credit points consisting of:</p> <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). <p>*Please note that the following two Majors are not professionally accredited and are only offered to students undertaking the course at NSBM</p> <ul style="list-style-type: none">• NMAMCS Mobile and Cloud Service Development Major• NMACSY Cyber Security Major.
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	Khandakar Ahmed
COURSE ADVICE	AskVU https://askvu.vu.edu.au/app/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: 18/09/2023. It is provided as information only and does not form part of a contract between any person and Victoria University.



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YEAR 1

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

Semester 1, Block 1 Admitted: Pattern of Study

- NIT1102 1B1
- NIT1103 1B2
- NIT1104 1B3
- NIT1101 1B4
- NIT1201 2B1
- NIT1202 2B2
- NIT1203 2B3
- NIT1204 2B4

Semester 2, Block 1 Admitted: Pattern of Study

- NIT1102 2B1
- NIT1101 2B2
- NIT1204 2B3
- NIT1203 2B4



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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
NMAMCS Mobile and Cloud Service Development
NMACSY Cyber Security

List of minor/s available in this course

NMIASD Software Development
NMIANM Network Management
NMIICT ICT Management
AMITEM The Entrepreneurial Mindset

IT MAJORS

Network and System Computing NMANSC

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	12	FP	NIT1104
NIT2202	Big Data	Major	2B1, 2B3, 2B4	12	FP	NIT1102; or NIT1201
NIT2222	Networking Technologies	Major	2B2, 2B4	12	FP	NIT1104
NIT3114	Online Business System Development	Major	1B1, 2B2	12	FP	NIT1204; or NIT2112; or NIT2213
			1B3		ORT	
NIT3122	Enterprise Network Management	Major	1B3	12	FP	NIT2122
NIT3202	Data Analytics for Cyber Security	Major	2B1, 2B2	12	FP	NIT2102; and NIT2202
NIT3222	Virtualisation in Computing	Major	2B3	12	FP	NIT2122; or NIT2222



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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	1B4	12	FP	NIT1102; or BCO1102
			1B1, 1B3		ORT	
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	12	FP	NIT2112; and NIT2213
			1B3		ORT	
NIT3114	Online Business System Development	Major	1B1, 2B2	12	FP	NIT1204; or NIT2112; or NIT2213
			1B3		ORT	
NIT3202	Data Analytics for Cyber Security	Major	2B1, 2B2	12	FP	NIT2102; and NIT2202
NIT3213	Mobile Application Development	Major	2B2, 2B3	12	FP	NIT2112; or NIT2213

Mobile and Cloud Service Development NMAMCS

The Mobile and Cloud Service Development major builds on the first-year foundational units to provide students with in-depth knowledge and advanced IT skills in the specialized areas of application development and cloud computing. The focus of this major is to scaffold knowledge around cloud computing through the introduction of cloud infrastructure, guidance through the build of applications in a variety of formats, including web and mobile, and eventually deployment of these application in the cloud. Cloud engineers, cyber security professionals, ICT professionals, mobile application developers and DevOps engineers are the most demanding IT jobs in the industry; and this major will contribute to the development of SFIA skills, specifically in these areas. This major provides both technical depth as well as breadth through exploration of the topics and possible disruptions in these areas through the core units and the application of these skills and knowledge through industry-relevant capstone projects.

UNIT CODE	UNIT TITLE	UNIT TYPE	SEM	CREDIT POINTS	CAMPUS	PRE-REQUISITES
NIT2112	Object Oriented Programming	Major	1B1, 1B2	12	FP	NIT1102
NIT2202	Big Data	Major	2B1, 2B3, 2B4	12	FP	NIT1102; or NIT1201
NIT2213	Software Engineering	Major	2B1, 2B4	12	FP	



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NIT3112	Advance Web Application Development	Major	1B2	12	FP	NIT2112; and NIT2213
			1B3		ORT	
NIT3114	Online Business System Development	Major	1B1, 2B2	12	FP	NIT1204; or NIT2112; or NIT2213
			1B3		ORT	
NIT3213	Mobile Application Development	Major	2B2, 2B3	12	FP	NIT2112; or NIT2213

Cyber Security NMACSY

The cyber security major builds on the first-year foundational units to prepare students as security professionals with in-depth knowledge and advanced IT skills in cyber security. The focus of this major is to scaffold knowledge around cyber security, but not limited to, the introduction of Cyber Security Fundamentals, Cyber Security Architecture, Cyber Security Technologies (i.e., digital signature, firewalls, intrusion detection and data encryption), Cloud Security, Enterprise Security, Cybersecurity operations, Data privacy, Cyber Physical Systems Security, Cyber Security Regulation, Policies and Laws. This major will contribute to the development of SFIA skills, specifically in these areas and provide students with insights into the latest developments in this field. This major provides both technical depth as well as breadth through exploration of the topics and possible disruptions in these areas through the core units and the application of these skills and knowledge through industry-relevant capstone projects. This major will better prepare Bachelor of IT graduates for the high demand professions such as cyber security specialists, cyber security consultants, network security engineers, and enterprise security engineers.

UNIT CODE	UNIT TITLE	UNIT TYPE	SEM	CREDIT POINTS	CAMPUS	PRE-REQUISITES
NIT2141	Digital Forensics and Ethical Hacking	Major	1B2	12	FP	NIT1102
NIT2122	Server Administration and Management	Major	1B2, 1B4	12	FP	NIT1202
NIT2241	Cyber Law Policy and Professional Ethics	Major	2B1	12	FP	
NIT2242	Data Privacy and Cyber Physical Systems Security	Major	2B2	12	FP	NIT1104
NIT3122	Enterprise Network Management	Major	1B3	12	FP	NIT2122
NIT3141	Security Operations and Vulnerability Analysis	Major	1B2	12	FP	NIT2141, NIT2102
NIT3202	Data Analytics for Cyber Security	Major	2B1, 2B2	12	FP	NIT2102; and NIT2202
NIT3222	Virtualisation in Computing	Major	2B3	12	FP	NIT2122; or NIT2222



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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, 1B3 1B2	12	FP ORT	NIT1104
NIT2201	IT Profession and Ethics	Minor	2B2, 2B3	12	FP	
NEF3001	Applied Project 1	Minor	1B1, 1B4, 2B4 1B3, 1B4, 2B4	12	FP ORT	
NEF3002	Applied Project 2	Minor	1B1, 1B4, 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 ORT	NIT2112; and NIT2213
NIT3213	Mobile Application Development	Minor	2B2, 2B3	12	FP	NIT2112; or NIT2213



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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	2B2, 2B4	12	FP	NIT1104
NIT3122	Enterprise Network Management	Minor	1B3	12	FP	NIT2122
NIT3222	Virtualisation in Computing	Minor	2B3	12	FP	NIT2122; or NIT2222

ICT Management NMIICT

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	12	FP	
NIT2271	ICT Change Management	Minor	2B1	12	ORT	
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	12	FP	NIT2171; or NIT2271

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