

COURSE DELIVERY PLAN 2022

Bachelor of Information Technology

COURSE CODE: NBIT

CAMPUS	Footscray Park (FP) and VU Sydney (VUS)
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	Wenjie (Alex) Ye – Major in Web and Mobile Application Khandakar Ahmed – Major in Network and System Computing
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: 19/10/2021. It is provided as information only and does not form part of a contract between any person and Victoria University.

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Refer to the VU Calendar for 4-Week Block start dates:

<https://www.vu.edu.au/current-students/your-course/timetables-calendars/academic-calendar>

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YEAR 1

UNIT CODE	UNIT TITLE	UNIT TYPE	SEM	CREDIT POINTS	CAMPUS	PRE-REQUISITES
Semester 1, 2022						
NIT1102	Introduction to Programming		Core	1B1	12	FP
NIT1103	Communication and Information Management		Core	1B2	12	FP
NIT1101	Web Development and CMS		Core	1B3	12	FP
NIT1104	Computer Networks		Core	1B4	12	FP
Semester 2, 2021						
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

If the above Sequence Pattern is full, please enrol as per below:

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

Students commencing in Semester 1, Block 3 (1B3) please enrol as per below:

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

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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	Minor		12		
	Minor 2 - Unit 1	Graduating Minor		12		
	Major 1 - Unit 3	Major		12		
	Major 1 - Unit 4	Major		12		
	Minor 1 - Unit 2	Minor		12		
	Minor 2 - Unit 2	Graduating 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	Minor		12		
	Minor 2 - Unit 3	Gradating Minor		12		
	Major 1 - Unit 7	Major		12		
	Major 1 - Unit 8	Major		12		
	Minor 1 - Unit 4	Minor		12		
	Minor 2 - Unit 4	Graduating Minor		12		

List of major/s available in this course

NMANSC - Network and System Computing
NMAWMD - Web and Mobile Application Development

List of minor/s available in this course

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

List of compulsory minor/s available in this course

NMIITC Graduating Core

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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 Year 2	Server Administration and Management	Major	1B2 1B3 1B4	12	ORT FP ORT	NIT1202
NIT2124 Year 2	Network Management	Major	1B2 1B3	12	FP ORT	NIT1104
NIT2202 Year 2	Big Data	Major	2B1 2B2 2B3 2B4	12	ORT FP FP ORT	NIT1102 or NIT1201
NIT2222 Year 2	Networking Technologies	Major	2B2 2B4	12	FP ORT	NIT1104
NIT3114 Year 3	Online Business System Development	Major	1B1 1B2 1B3 1B4	12	FP ORT ORT FP	NIT1204 or NIT2112 or NIT2213
NIT3122 Year 3	Enterprise Network Management	Major	1B1 1B2 1B3	12	ORT FP FP	NIT2122
NIT3202 Year 3	Data Analytics for Cyber Security	Major	2B1 2B2 2B4	12	FP FP ORT	NIT2102 and NIT2202
NIT3222 Year 3	Virtualisation in Computing	Major	2B2 2B3	12	ORT 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 Year 2	Object Oriented Programming	Major	1B1 1B2 1B4	12	FP ORT FP	NIT1102
NIT2113 Year 2	Cloud Application Development	Major	1B1 1B3 1B4	12	ORT ORT FP	NIT1102 or BCO1102
NIT2202 Year 2	Big Data	Major	2B1 2B2 2B3 2B4	12	ORT FP FP ORT	NIT1102 or NIT1201
NIT2213 Year 2	Software Engineering	Major	2B1 2B3 2B4	12	FP ORT FP	
NIT3112 Year 3	Advance Web Application Development	Major	1B2 1B3 1B4	12	FP ORT FP	NIT2112 and NIT2213
NIT3114 Year 3	Online Business System Development	Major	1B1 1B2 1B3 1B4	12	FP ORT ORT FP	NIT1204 or NIT2112 or NIT2213
NIT3202 Year 3	Data Analytics for Cyber Security	Major	2B1 2B2 2B4	12	FP FP ORT	NIT2102 and NIT2202
NIT3213 Year 3	Mobile Application Development	Major	2B2 2B3	12	FP ORT	NIT2112 or NIT2213

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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 Year 2	Cyber Security Essentials	Minor	1B1 1B2 1B3 1B4	12	ORT FP FP ORT	NIT1104
NIT2201 Year 2	IT Profession and Ethics	Minor	2B1 2B2 2B3 2B4	12	ORT ORT ORT FP	
NEF3001 Year 3	Applied Project 1	Minor	1B1 1B4 2B1 2B4	12	FP FP FP FP	
NEF3002 Year 3	Applied Project 2	Minor	1B1 1B4 2B1 2B4	12	FP FP FP FP	NEF3001

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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 Year 2	Object Oriented Programming	Minor	1B1 1B2 1B4	12	FP ORT FP	NIT1102
NIT2213 Year 2	Software Engineering	Minor	2B1 2B3 2B4	12	FP ORT FP	
NIT3112 Year 3	Advance Web Application Development	Minor	1B2 1B3 1B4	12	FP ORT FP	NIT2112 and NIT2213
NIT3213 Year 3	Mobile Application Development	Minor	2B2 2B3	12	FP ORT	NIT2112 or NIT2213

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 Year 2	Server Administration and Management	Minor	1B2 1B3 1B4	12	ORT FP ORT	NIT1202
NIT2222 Year 2	Networking Technologies	Minor	2B2 2B4	12	FP ORT	NIT1104
NIT3122 Year 3	Enterprise Network Management	Minor	1B1 1B2 1B3	12	ORT FP FP	NIT2122
NIT3222 Year 3	Virtualisation in Computing	Minor	2B2 2B3	12	ORT FP	NIT2122 or NIT2222

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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 Year 2	Introduction to ICT Management	Minor	1B1 1B3 1B4	12	ORT FP ORT	
NIT2271 Year 2	ICT Change Management	Minor	2B1 2B2	12	FP ORT	
NIT3171 Year 3	ICT Business Analytics and Data Visualisation	Minor	1B2 1B3 1B4	12	FP ORT ORT	NIT2202 and NIT2171 or NIT2271
NIT3274 Year 3	Small IT Business	Minor	2B3	12	ORT	NIT2171 or NIT2271

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The Entrepreneurial Mindset AMITEM

The nature of work is changing. The rapid pace in which technology is developing is causing widespread disruption, both in organisational cultures and working practices. And with new technologies such as artificial intelligence and machine-learning, robotics, nanotechnology, 3-D printing, and genetics and biotechnology coming up, this disruption is only getting started.

Success in this new world is increasingly dependent on personal initiative; a self-starting, future-oriented and persistent proactive mindset. Such a mindset combined with effective teamwork in a multidisciplinary context has been the driver of entrepreneurial success for decades. More and more employers are starting to demand these skills from their employees as well.

This unit set equips students with the skills and competencies to future-proof yourself, creating experiences that allow for a strong start to and succeeding in your chosen profession (be that as an employee or self-employed). Students work collaboratively on employing an evidence-based approach to identifying problems and implementing solutions, equipping themselves with the skills and knowledge to lead in the future of work.

The first unit explores how to come up with ideas and how to critically assess the potential of the idea. During this unit we introduce a number of key processes and concepts like where to start when exploring ideas, how to run user interviews and prototyping. The second unit introduces the Minimum Viable Product (MVP) and allows students to experiment with the evidence-based, iterative approach of User Validation. The third unit focuses on how to effectively communicate the findings of the first two units in a compelling story to gather critical support. Finally, the last unit introduces students to growth strategies and how these strategies drive execution.

The unit set culminates in a pitch-style event where the students pitch their project in a live setting to an audience of stakeholders, integrating the knowledge, skills and understandings they have developed.

The Entrepreneurial Mindset unit set aims to provide career defining experiences. The minor is demanding and is a great fit for students who want to be part of something exciting and new while creating their own success.

UNIT CODE	UNIT TITLE	UNIT TYPE	SEM	CREDIT POINTS	CAMPUS	PRE-REQUISITES
AEN2001 Year 2	Problem Discovery	Minor	1B1 2B1	12	FP	
AEN2002 Year 2	Solution Validation	Minor	1B2 2B2	12	FP	
AEN3001 Year 3	Storytelling for Impact	Minor	1B3 2B3	12	FP	AEN2002
AEN3002 Year 3	Hacking Growth	Minor	1B4 2B4	12	FP	AEN2002