

COURSE DELIVERY PLAN 2024

Master of Engineering

COURSE CODE: NMEN

CAMPUS	Footscray Park (FP)
COLLEGE	College of Sport, Health and Engineering
STUDY MODE	Full Time or Part Time
DURATION	2 years Full Time or Part Time equivalent
FEE TYPE	For information on course fees, refer to http://vu.edu.au/fees
APPLICATION METHOD	Direct Application - https://gotovu.custhelp.com/app/landing
TIMETABLE	https://vu.edu.au/timetables
COURSE REQUIREMENTS	To be eligible for the Master of Engineering, students are required to complete 192 credit points in total, consisting of: <ul style="list-style-type: none">• 48 credit points of Common Interdisciplinary studies;• 48 credit points of Research studies;• 96 credit points of Core Specialisation studies.
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	Horace King
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 October 24, 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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COURSE DELIVERY PLAN 2024

YEAR 1

Common Interdisciplinary Studies

UNIT CODE	UNIT TITLE	UNIT TYPE	SEM	CREDIT POINTS	CAMPUS	PRE-REQUISITES
BMO6050	Art and Practice of Leadership	Other	8WB1, 8WB3	12	CC	
BMO6506	Work and Organisation Systems	Other	8WB1, 8WB2, 8WB3, 8WB4	12	CC	
BMO6511	Strategic Management and Business Policy	Other	8WB2, 8WB3	12	CC	
EPM5600	Principles of Project Management	Other	8WB1	12	ORT	
EPM5610	Project Planning and Control	Other	8WB3	12	ORT	
EPM5630	Project Management and People	Other	8WB3	12	FP	
EPM5630	Project Management and People	Other	8WB3	12	FP	
EPM5730	Project Stakeholder Management	Other	8WB4	12	FP	
EPM5740	Project Risk Management	Other	8WB2	12	FP	
NIT5081	Fundamentals of Cyber Security	Other	8WB1, 8WB4	12	CC	
NIT5082	Cloud Security	Other	8WB1	12	CC	
NIT5110	Networking Systems	Other	8WB2	12	CC	
NIT5130	Database Analysis and Design	Other	8WB2	12	CC	
NIT5150	Advanced Object Oriented Programming	Other	8WB1	12	CC	
NIT6083	Security and Risk Management	Other	8WB4	12	CC	NIT5081

Research Studies

UNIT CODE	UNIT TITLE	UNIT TYPE	SEM	CREDIT POINTS	CAMPUS	PRE-REQUISITES
NEF6101	Research Thesis 1	Capstone	1, 2	24	FP	
NEF6102	Research Thesis 2	Capstone	1, 2	24	FP	NEF6101



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YEAR 2

Electrical Power NSPELE

The Master of Engineering specialisation in Electrical Power comprises coursework, design exercises and research projects designed to enable students to acquire specialised skills and expertise in the field of Power Systems, specifically catering for the contemporary Smart electricity system. Making the electricity grid Smart compliant is a global priority. Upgrading electricity grids to 21st century standards requires incorporating power engineering with the latest digital communications systems and information technology areas (including sensors, electronics, controls and wireless devices). The course will enhance students' academic experience through work-related learning. Active learning, strong contextualisation and industry relevance characterise the design, development and delivery of resources and course materials.

UNIT CODE	UNIT TITLE	UNIT TYPE	SEM	CREDIT POINTS	CAMPUS	PRE-REQUISITES
NNM6001	Electrical Power Systems, Analysis and Operation	Specialisation	N/A	12	FP	
NNM6002	Electric Energy Systems Protection and Communication	Specialisation	N/A	12	FP	
NNM6003	Overhead and Underground Power Line Design	Specialisation	N/A	12	FP	
NNM6005	Alternate Energy Systems	Specialisation	N/A	12	FP	
NNM7002	Transient Analysis, Stability and Surge Protection	Specialisation	N/A	12	FP	
NNM7005	Power Quality and Harmonics	Specialisation	N/A	12	FP	
NNM7006	Insulation Co-Ordination and Sub-Station Design Principles	Specialisation	N/A	12	FP	
NNM7007	National Electricity Market and Regulation Principles	Specialisation	N/A	12	FP	



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Telecommunication NSPTEL

The Master of Engineering Telecommunications specialisation is supported by coursework, design exercises and research projects designed to enable the development of specialised skills and expertise in the telecommunications field, specifically wireless and network engineering. Graduates will meet employment demand in the telecommunications industry within Australia and overseas. Particular emphasis on wireless and networking within the course will provide job opportunities in the areas of mobile broadband and fibre to the premises - the current growth drivers of the global telecommunications industry. Students in this specialisation will benefit from the College's strong research outputs, capabilities and facilities which were major contributors to the Australian Research Council's 2018 (Excellence in Research Australia) ERA=5 (well above world standard) ranking in electrical engineering and contributed to the Engagement and Impact Outcomes rating of HIGH for Engineering impact.

UNIT CODE	UNIT TITLE	UNIT TYPE	SEM	CREDIT POINTS	CAMPUS	PRE-REQUISITES
NIT5110	Networking Systems	Specialisation	8WB2	12	CC	
NIT6120	Mobile Applications	Specialisation	8WB4	12	CC	
NNT6501	Advanced Communication System Design 1	Specialisation	N/A	12	FP	
NNT6502	Advanced Communication System Design 2	Specialisation	N/A	12	FP	
NNT6510	Communication Theory	Specialisation	N/A	12	FP	
NNT6531	Radio Frequency Engineering	Specialisation	N/A	12	FP	
NNT6532	Satellite Network Design	Specialisation	N/A	12	FP	
NNT6542	Mobile Network Design	Specialisation	N/A	12	FP	



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Civil Engineering NSPCIV

This Masters builds upon the highly successful and industry renowned Bachelor of Engineering (Civil Engineering, Honours), NHEC. Full-time employment in NHEC (and EBDC) is 87% (GOS 2019) which is well above the national average of 82.4% for undergraduate Engineering degrees according to GOS 2019 data. The Masters in Civil Engineering will further fulfil the growing demand for professionals with advanced knowledge, problem solving skills and research ability in Civil Engineering. This Masters will be technical in nature and will be aimed at enhancing students' ability to gain employment in both the private and public sector in positions of planning, designing, constructing and management of essential community infrastructure. Graduates will have a wide range of career opportunities in a variety of organisations including: construction companies, transportation authorities and organisations, water utility providers, mining, as well as defence, local councils and other government departments.

UNIT CODE	UNIT TITLE	UNIT TYPE	SEM	CREDIT POINTS	CAMPUS	PRE-REQUISITES
NNC6001	Advanced Transportation Engineering	Specialisation	N/A	12	FP	
NNC6002	Sustainable Design and Development	Specialisation	N/A	12	FP	
NNC7001	Advanced Structures	Specialisation	N/A	12	FP	
NNC7002	Sustainable Design of Major Civil Engineering Infrastructure	Specialisation	N/A	12	FP	
NNC7003	Advanced Materials and Asset Management of Infrastructure	Specialisation	N/A	12	FP	
NNC7004	Integrated Urban Water Management	Specialisation	N/A	12	FP	
NNC7005	Smart Water Systems Design	Specialisation	N/A	12	FP	
NNC7006	Soil Mechanics and Foundation Engineering	Specialisation	N/A	12	FP	



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