

COURSE DELIVERY PLAN 2022

Bachelor of Engineering (Honours) (Electrical and Electronic Engineering)

COURSE CODE: NHEE

CAMPUS	Footscray Park (FP)
COLLEGE	College of Engineering and Science
STUDY MODE	Full Time or Part Time
DURATION	4 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 Engineering (Honours) (Electrical and Electronic Engineering), students will be required to complete 384 credit points consisting of:</p> <ul style="list-style-type: none">• 96 credit points of First Year Core studies;• 288 credit points of Professional Core Engineering units. <p>Students are required to produce documented evidence of the completion of 12 weeks professional experience.</p> <p>Accreditation: This program is accredited by Engineers Australia and graduates are eligible to apply for graduate membership.</p> <p>First Class Honours: To be eligible for completion with First Class Honours, students must achieve:</p> <ul style="list-style-type: none">• A minimum weighted average of 60% over year levels 1 to 3;• A minimum weighted average of 80% in year level 4;• An average HD grade for the final year units, *NEF4101 Research Project 1 and *NEF4201 Research Project 2. Require Supervisor approval for enrolment.
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	Tze Huei Lai
COURSE ADVICE	ASK YOUR CUA - https://askvu.vu.edu.au/app/askcua

Students who have completed old/replaced/suspended unit/s do not need to take the new/superseded unit/s.

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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: 7/02/2022. It is provided as information only and does not form part of a contract between any person and Victoria University.

Unit Availability

Please refer to [2022 Timetable](#) for unit availability.

VU is working to ensure that the achievements and adaptability of students and staff are reflected in our ongoing delivery modes for the future.

VICTORIA UNIVERSITY DELIVERY

These delivery modes are:

- **In person:** Your unit or classes will be delivered on the campus you have enrolled in. The timetable will display "On Campus" and provide the room where the classes will be held and you will physically attend those classes. All learning activity delivered on campus will continue to be run under strict COVID-19 safe practices.*
- **Online real-time:** Your unit or classes will be delivered online using Zoom. The timetable will display "Online Real Time (ZOOM)" and you will attend scheduled classes remotely through Zoom classrooms.
- **Hybrid:** Part of your unit will be delivered in person on the campus you have enrolled in, with the remainder delivered in an online mode. The timetable will state which classes or activities in the unit will be delivered on campus and which classes or activities will be online, in either real-time or self-paced mode.

Your unit will show whether it is delivered wholly online real-time, online self-paced or in person. If your unit is delivered in hybrid mode, each class within the unit will show whether it is delivered in person or online. Please be sure to check all the individual classes in your unit.

CC/CT – City Tower

FP – Footscray Park

FN – Footscray Nicholson

ORT – Online Real Time (Zoom)

HY – Hybrid

IP – In Person



COURSE DELIVERY PLAN 2022

YEAR 1

UNIT CODE	UNIT TITLE	UNIT TYPE	SEM	CREDIT POINTS	CAMPUS	PRE-REQUISITES
NEF1103	Engineering and the Community	Core	1B1, 2B1, SB1	12	FP	
NEF1105 /old unit NEM1001	Mathematics for Engineering and Science	Core	1B1, 1B2, 1B4, 2B2	12	FP	
NEF1104	Problem Solving for Engineers	Core	1B3, 1B4, 2B3	12	FP	
NEF1102	Engineering Physics 1	Core	1B2, 1B3, 1B4, 2B4	12	FP	
NEF1201	Engineering Mathematics 2	Core	1B1, 1B3, 2B1	12	FP	NEF1105 / NEM1001
NEF1205	Engineering Fundamentals	Core	1B4, 2B1, 2B2, 2B3	12	FP	
NEF1202	Engineering Physics 2	Core	1B2, 2B1, 2B2, 2B3	12	FP	NEF1102
NEF1204	Introduction to Engineering Design	Core	1B3, 2B3, 2B4	12	FP	

YEAR 2

UNIT CODE	UNIT TITLE	UNIT TYPE	SEM	CREDIT POINTS	CAMPUS	PRE-REQUISITES
NEE2101	Electrical Circuits	Core	1B1	12	FP	NEF1205
NEE2107	Telecommunications	Core	1B2	12	FP	NEF1201
NEE2110	Engineering Design and Practice 2A	Core	1B3	12	FP	NEF1204
NEE2106	Computer Programming for Electrical Engineers	Core	1B4	12	FP	
NEE2205	Analogue Electronics	Core	2B1	12	FP	NEF1205
NEE2204	Power System Supply Chain Management	Core	2B2	12	FP	
NEE2201	Linear Systems with Matlab Applications	Core	2B3	12	FP	NEF1201, NEE2101
NEE2210	Engineering Design and Practice 2B	Core	2B4	12	FP	NEE2205

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YEAR 3

UNIT CODE	UNIT TITLE	UNIT TYPE	SEM	CREDIT POINTS	CAMPUS	PRE-REQUISITES
NEF3101	Project Management	Core	1B1, 1B2, 1B4, WB1	12	FP	96 CP
NEE3103	Electrical Machines	Core	1B2, 1B3	12	FP	NEE2101 or NEF2251
NEE3201	Introduction to Control Systems	Core	1B2	12	FP	NEE2201 or
NEE3104	Digital Systems	Core	1B1	12	FP	NEF1205
NEE3207	Analogue and Digital Transmission	Core	2B1	12	FP	
NEE3208	Signal Processing	Core	2B3	12	FP	NEE2201
NEE3203	Embedded Systems	Core	2B4	12	FP	NEE2106
NEF3202	Research Methods	Core	2B2, 2B3, 2B4	12	FP	192 Cp

YEAR 4

UNIT CODE	UNIT TITLE	UNIT TYPE	SEM	CREDIT POINTS	CAMPUS	PRE-REQUISITES
NEF4001	Computational Heat and Fluid Flows	Core	1B1, 1B2	12	FP	NEF1201, NEF1202, 240 CP
NEE4110	Electrical Power Systems, Analysis and Operation	Core	1B3	12	FP	
NEF4205	Sustainable Energy Systems	Core	2B2, 2B3	12	FP	NEF1202, 192 CP
NEF4101	Research Project 1	Core	1B4, 2B4	12	FP	NEF3202
NEF4201	Research Project 2	Core	B4, 2B4	12	FP	NEF3202, NEF4101
NEF4206	Advanced Engineering Design	Core	2B1, 2B3	12	FP	NEF3101, NEE2204, 288 CP
NEF4105	Professional Engineering Practice	Core	1B1, 1B2, 1B3, 2B4	12	FP	
NEE4211	Mobile Networks and Communications	Core	2B2	12	FP	NEE3207

New/Replaced/Superseded Unit

NEF1105 - Mathematics for Engineering and Science
NEF4001 - Computational Heat and Fluid Flows

Old/Suspended Unit

NEM1001 - Algebra and Calculus
NEM4102 - Finite Element Analysis