COURSE DELIVERY PLAN 2024

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

COURSE CODE: NHEE

CAMPUS	Footscray Park (FP)
COLLEGE	College of Sport, Health and Engineering
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	https://vu.edu.au/timetables
COURSE REQUIREMENTS	To attain the Bachelor of Engineering (Honours) (Electrical and Electronic Engineering), students will be required to complete 384 credit points consisting of: • 96 credit points of First Year Core studies; • 288 credit points of Professional Core Engineering units. Students are required to produce documented evidence of the completion of 12 weeks professional experience. **Accreditation:** This program is accredited by Engineers Australia and graduates are eligible to apply for graduate membership. **First Class Honours:** To be eligible for completion with First Class Honours, students must achieve: • 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.
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

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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 October 24, 2023. It is provided as information only and does not form part of a contract between any person and Victoria University.

Summer and Winter Unit Offerings:
For Summer (January 2024) and Winter (July 2024) please refer to the below link:
https://www.vu.edu.au/current-students/your-course/timetables-calendars/summer-winter-school-study
(You will need to wait for this information to be updated if it is still showing 2023)

Double Block only students in their final year or semester will be approved to Double Block and for extenuating circumstances. You are required to seek approval via AskCUA.

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YEAR 1

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

Students commencing in **Semester 2, Block 1 (2B1)** should enrol as per the below sequence pattern:
2B1 - NEF1103 - Engineering and the Community
2B2 - NEF1105 - Mathematics for Engineering and Science
2B3 - NEF1102 - Engineering Physics 1
2B4 - NEF1204 - Introduction to Engineering Design

In 2025, you enrol:
1B1 – NEF1201 - Engineering Mathematics 2
1B2 – NEF1202 - Engineering Physics 2
1B3 – NEF1205 - Engineering Fundamentals
1B4 – NEF1104 - Problem Solving for Engineers

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

NEF1102 - Engineering Physics 1
NEF1204 - Introduction to Engineering Design

In 2025, you enrol:
NEF1103 - Engineering and the Community
NEF1105 - Mathematics for Engineering and Science
NEF1204 - Introduction to Engineering Design
NEF1104 - Problem Solving for Engineers

Students must adhere to the above sequence pattern when enrolling units. Pre-requisite units must also be adhered to when requesting a manual enrolment.

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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

Students must adhere to the above sequence pattern when enrolling units. Pre-requisite units must also be adhered to when requesting a manual enrolment.

YEAR 3

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

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YEAR 4

UNIT CODE	UNIT TITLE	UNIT TYPE	SEM	CREDIT POINTS	CAMPUS	PRE-REQUISITES
NEF4105	Professional Engineering Practice	Core	1B1	12	FP	Completion of 288 credit points.
NEF4001	Computational Heat and Fluid Flows	Core	1B2	12	FP	NEF1201; and NEF1202
NEE4110	Electrical Power Systems, Analysis and Operation	Core	1B3	12	FP	
NEF4101	Research Project 1	Core	1B4 2B4	12	FP	NEF3202 Completion of 288cp
NEF4206	Advanced Engineering Design	Core	2B1 WB1	12	FP	NEF3101, NEE2204 Completion of 288cp.
NEE4211	Mobile Networks and Communications	Core	2B2	12	FP	NEE3207
NEF4205	Sustainable Energy Systems	Core	2B2	12		NEF1202 Completion of 192 credit points.
NEF4201	Research Project 2	Core	2B4	12	FP	NEF4101

Students must adhere to the above sequence pattern when enrolling units. Pre-requisite units must also be adhered to when requesting a manual enrolment.

Before enrolling in NEF4101 Research Project 1, students must:

- **Have completed NEF3202 Research Methods which includes the selection of a Capstone project.**
- **Have at least 288 CP.**
- **Not enrol in NEF3202 and NEF4101 in the same semester.**
- **Not enrol in NEF4101 and NEF4102 in the same semester.**