COURSE DELIVERY PLAN 2026

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

COURSE CODE: NHEE – Semester Two commencement

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	vu.edu.au/timetables
COURSE REQUIREMENTS	To attain the Bachelor of Engineering (Honours) (Civil Engineering), students will be required to complete: • 336 credit points of Core studies • 48 credit points of Capstone studies • 0 credit points unit NEF3000 Engineering 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 unit NEF4901 Research Project or 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	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.

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YEAR 1

UNIT CODE	UNIT TITLE	UNIT TYPE	SEM	CREDIT POINTS	CAMPUS	PRE-REQUISITES
NEF1001	Introduction to Engineering	Core	2B1	12	FP	
NEF1002	Engineering Computational Methods	Core	2B2	12	FP	
NEF1003	Engineering Dynamics	Core	2B3	12	FP	
NEF1004	Principles of Structural Mechanics	Core	2B4	12	FP	NEF1002; or NEF1105

YEAR 2

UNIT CODE	UNIT TITLE	UNIT TYPE	SEM	CREDIT POINTS	CAMPUS	PRE-REQUISITES
NEF1005	Applied and Quantitative Methods in Engineering	Core	1B1	12	FP	NEF1002; or NEF1105
NEF1006	Fundamentals of Electrical Systems	Core	1B2	12	FP	NEF1003; or NEF1102
NEF1007	Thermodynamics for Engineers	Core	1B3	12	FP	NEF1003; or NEF1102
NEF1008	Sustainable Engineering Design and Innovation	Core	1B4	12	FP	NEF1001; or NEF1103
NEE2005	Modern Communication Systems	Core	2B1	12	FP	NEF1005; and NEF1006
NEE2006	Energy Conversion and Smart Machines	Core	2B2	12	FP	NEF1005; and NEF1006
NEE2007	Advanced Control and Robotics	Core	2B3	12	FP	NEE2006
NEE2008	Robotics and Autonomous Systems Design	Core	2B4	12	FP	NEE2005; and NEE2006; and NEE2007

YEAR 3

UNIT CODE	UNIT TITLE	UNIT TYPE	SEM	CREDIT POINTS	CAMPUS	PRE-REQUISITES
NEE2001	Electrical Circuits with Computer Programming	Core	TBC	12	FP	NEF1005; and NEF1006
NEE2002	Analogue and Digital Signals and Systems	Core	TBC	12	FP	NEE2001
NEE2003	Microcontrollers and Embedded Systems	Core	TBC	12	FP	NEE2001

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NEE2004	Internet of Things (IoT) Design and Applications	Core	TBC	12	FP	NEE2001; and NEE2002; and NEE2003
NEF3000	Engineering Professional Experience	Core	TBC	0	FP	
NEE3005	Future Grid Transmission and Distribution	Core	TBC	12	FP	NEE2001
NEE3006	Smart Grid Operation and Network Analysis	Core	TBC	12	FP	NEE3005
NEE3007	High Voltage and Protection Engineering	Core	TBC	12	FP	NEE3006
NEE3008	Smart Grid and Power Engineering Design	Core	TBC	12	FP	NEE3007

YEAR 4

UNIT CODE	UNIT TITLE	UNIT TYPE	SEM	CREDIT POINTS	CAMPUS	PRE-REQUISITES
NEE3001	Signal Processing in Smart Systems	Core	TBC	12	FP	NEE2002
NEE3002	Next Generation Communication Technologies	Core	TBC	12	FP	NEF1005
NEE3003	Innovative Wearable Medical Devices	Core	TBC	12	FP	NEE2002
NEE3004	Healthcare Electronics Design	Core	TBC	12	FP	NEE3001, NEE3002, NEE3003
NEC4901	Research Project	Core	TBC	48	FP	

YEAR 5

UNIT CODE	UNIT TITLE	UNIT TYPE	SEM	CREDIT POINTS	CAMPUS	PRE-REQUISITES
NEE4001	Clean Energy Systems Design and Operation	Core	TBC	12	FP	
NEE4002	Renewable Energy System Design	Core	TBC	12	FP	
NEE4003	Cellular and Satellite Integration	Core	TBC	12	FP	NEE2005
NEE4004	5G Network Design and Applications	Core	TBC	12	FP	