

# COURSE DELIVERY PLAN 2026

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

**COURSE CODE: NHEE**

|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
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| <b>CAMPUS</b>              | Footscray Park (FP)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>COLLEGE</b>             | College of Sport, Health and Engineering                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>STUDY MODE</b>          | Full Time or Part Time                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>DURATION</b>            | 4 years Full Time or Part Time equivalent                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>FEE TYPE</b>            | For information on course fees, refer to <a href="http://vu.edu.au/fees">http://vu.edu.au/fees</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>APPLICATION METHOD</b>  | VTAC - <a href="https://vtac.edu.au">https://vtac.edu.au</a><br>Direct Application - <a href="https://gotovu.custhelp.com/app/landing">https://gotovu.custhelp.com/app/landing</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>TIMETABLE</b>           | <a href="http://vu.edu.au/timetables">vu.edu.au/timetables</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>COURSE REQUIREMENTS</b> | <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"><li>• 96 credit points of First Year Core studies;</li><li>• 288 credit points of Professional Core Engineering units.</li></ul> <p>Students are required to produce documented evidence of the completion of 12 weeks professional experience.</p> <p><b>Accreditation:</b><br/>This program is accredited by Engineers Australia and graduates are eligible to apply for graduate membership.</p> <p><b>First Class Honours:</b><br/>To be eligible for completion with First Class Honours, students must achieve:</p> <ul style="list-style-type: none"><li>• A minimum weighted average of 60% over year levels 1 to 3;</li><li>• A minimum weighted average of 80% in year level 4;</li><li>• An average HD grade for the final year units, NEF4101 Research Project 1 and NEF4201 Research Project 2.</li></ul> |
| <b>FURTHER INFORMATION</b> | Unit and course information is available from the University course search site at <a href="http://vu.edu.au/course-search">http://vu.edu.au/course-search</a> or go to <a href="https://askvu.vu.edu.au">https://askvu.vu.edu.au</a> or Phone VUHQ on 03 9919 6100                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>COURSE CHAIR</b>        | Horace King                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>COURSE ADVICE</b>       | AskVU <a href="https://askvu.vu.edu.au/app/askcua">https://askvu.vu.edu.au/app/askcua</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

**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).

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**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: 7/10/2025. 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 2026

## YEAR 1

| UNIT CODE | UNIT TITLE                                      | UNIT TYPE | SEM | CREDIT POINTS | CAMPUS | PRE-REQUISITES      |
|-----------|-------------------------------------------------|-----------|-----|---------------|--------|---------------------|
| NEF1001   | Introduction to Engineering                     | Core      | 1B1 | 12            | FP     |                     |
| NEF1002   | Engineering Computational Methods               | Core      | 1B2 | 12            | FP     |                     |
| NEF1003   | Engineering Dynamics                            | Core      | 1B3 | 12            | FP     |                     |
| NEF1004   | Principles of Structural Mechanics              | Core      | 1B4 | 12            | FP     | NEF1002             |
| NEF1005   | Applied and Quantitative Methods in Engineering | Core      | 2B1 | 12            | FP     | NEF1002; or NEF1105 |
| NEF1006   | Fundamentals of Electrical Systems              | Core      | 2B2 | 12            | FP     | NEF1003; or NEF1102 |
| NEF1007   | Thermodynamics for Engineers                    | Core      | 2B3 | 12            | FP     | NEF1003; or NEF1102 |
| NEF1008   | Sustainable Engineering Design and Innovation   | Core      | 2B4 | 12            | FP     | NEF1001; or NEF1103 |

## 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                  |
|-----------|-----------------------------------|-----------|-----|---------------|--------|---------------------------------|
| NEE3104   | Digital Systems                   | Core      | 1B1 | 12            | FP     | NEF1205                         |
| NEE3201   | Introduction to Control Systems   | Core      | 1B2 | 12            | FP     | NEE2201                         |
| NEE3103   | Electrical Machines               | Core      | 1B3 | 12            | FP     | NEE2101                         |
| NEF3101   | Project Management                | Core      | 1B4 | 12            | FP     | Completion of 96 Credit Points  |
| NEE3207   | Analogue and Digital Transmission | Core      | 2B1 | 12            | FP     |                                 |
| NEF3202   | Research Methods                  | Core      | 2B2 | 12            | FP     | Completion of 192 Credit Points |
| NEE3208   | Signal Processing                 | Core      | 2B3 | 12            | FP     | NEE2201                         |
| NEE3203   | Embedded Systems                  | Core      | 2B4 | 12            | FP     | NEE2106                         |

## 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, NEF1202; Completion of 240 Credit Points. |
| NEE4110   | Electrical Power Systems, Analysis and Operation | Core      | 1B3 | 12            | FP     |                                                    |
| NEF4101   | Research Project 1                               | Core      | 1B4 | 12            | FP     | NEF3202; and Completion of 288CP                   |
| NEF4206   | Advanced Engineering Design                      | Core      | 2B1 | 12            | FP     | NEF3101, NEE2204, Completion of 288CP              |
| NEE4211   | Mobile Networks and Communications               | Core      | 2B2 | 12            | FP     | NEE3207                                            |
| NEF4205   | Sustainable Energy Systems                       | Core      | 2B2 | 12            | FP     | NEF1202; and Completion of 192CP                   |
| NEF4201   | Research Project 2                               | Core      | 2B4 | 12            | FP     | NEF4101                                            |

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

**Please note regarding NEF4101 Research project 1:**

- Students must have completed NEF3202 Research Methods and selected a Capstone project prior to enrolment.
- Students must have completed 288 Credit points.
- Students must not enrol in NEF3202, NEF4101 or NEF4102 in the same semester.

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