

BEngTech (Electrical & Electronic)

Enrolment 2027 (for students who commenced in 2024 or later)

STUDENT ID: _____ NAME: _____ SIGNED: _____

Once you have made your selections please go to MyAUT to complete your enrolment.

- FY = Full Year, S1 = Semester 1, S2 = Semester 2
- Pre-requisite courses are shown in the brackets after each course; please check these to ensure you have completed all necessary pre-requisite courses.
- Final approval for enrolment will be made by the Programme Leader or School Registrar. **Shaded courses are compulsory core courses.** For enrolment queries or issues, please email your Academic Administrator (e: engineer@aut.ac.nz).

YEAR 1						
DIGD507	Mahitahi: Collaborative Practices	S1/S2		COMP500	Programming Concepts and Techniques (ENSE503)	S1/S2
ENGE401	Introductory Engineering Mathematics	S1/S2		ENGE500	Introduction to Sustainable Engineering Design	S1/S2
ENGE504	Electrical Engineering Fundamentals	S1/S2		ENGE501	Engineering Mathematics 1 (ENGE401)	S1/S2
ENEL503	Digital Devices and Systems	S1		ENME502	Engineering Materials 1	S1/S2

YEAR 2						
ENEL500	Analogue Devices & Systems	S1		ENGE600	Engineering Management I	S2
ENEL510	Industrial Measurement and Control (ENGE504)	S1		ENEL602	Electronics Project (ENGE504 & ENEL608)	S1/S2
ENEL608	Introduction to Microcontrollers (COMP500)	S1		ENEL610	Embedded Digital Systems (ENEL608)	S2
ENEL621	Elements of Power Engineering (ENGE504)	S1		ENEL620	PLC Applications (ENEL503)	S2

YEAR 3						
ENGE777	Engineering Work Experience					S1/S2
ENGE771	Specialisation Project (Part A)	S1/S2		ENGE772	Specialisation Project (Part B)	S1/S2
ENEL713	Power System Analysis & Design (ENEL621)	S1		ENGE603	Renewable Energy Generation, Storage & Utilisation (ENGE504)	S2
ENEL714	Electrical Machines (ENGE504 & ENGE501)	S1			Major Option 2	
	Major Option 1				Major Option 3	

Major Options: Students must take 45 points from Major Option courses, including at least 15 points at Level 7

ENGE601	Engineering Mathematics 2 (ENGE501)	S1/2		ENEL700	Communication Engineering (ENEL500 & ENEL503)	S2
ENEL702	Instrumentation and Control Systems (ENEL510 & ENGE601)	S1		ENEL701	Power Electronic Systems (ENEL621)	S1
ENEL710	Sustainable Energy for Renewable Power (ENEL621)	S1		ENEL703	Power Systems Engineering (ENEL621 & ENGE504) <i>(not offered in 2027)</i>	S2
ENEL712	Embedded System Design (ENEL602 & ENEL608)	S1		ENEL716	Digital Systems Development 2 (ENEL715) <i>(not offered in 2027)</i>	S2
ENEL715	Digital Systems Development 1 (ENEL610) <i>(not offered in 2027)</i>	S1				

Core Courses

Major Courses

< Please see the next page for important notes >

NOTE:

1. Enrolments:
 - a. Students can enrol in up to 4 courses per semester (60 points).
 - b. Students should not enrol in courses with timetable clash.
 - c. Students cannot enrol in a course if they do not meet prerequisites.
 - d. Students must complete all Year 1 courses before enrolling in any Year 3 courses.
2. Courses shaded in light orange: Core Courses/ Courses shaded in dark orange: Major Courses (incl. Major Options)
3. Course level is the first digit of the numeric part of the alphanumerical code.
4. Students must complete all compulsory courses (core courses and major courses) and can choose 3 major option courses from the major option course choices.
5. To qualify for the Bachelor of Engineering Technology, a student must achieve 360 points by successfully completing the following:
 - I. core courses: 150 points with 15 points at level 6 and 30 points at level 7
and
 - II. major courses (shaded in orange + unshaded courses): 210 points from one of the majors with at least 90 points at level 6 and at least 45 points at level 7.
6. A student must complete all Year 1 courses before enrolling in any Year 3 courses.
7. Enrolment in Specialisation Project subject to the satisfactory completion of 240 points and completion of all year 1 courses.
8. Completion of ENGE777 is compulsory to graduate and no credits will be offered for this course:
 - a. Work Experience to commence at 240 points
 - b. A student must complete a minimum of 600 hours of planned supervised work experience approved by the programme director within one year of completing the coursework requirements to be eligible for this qualification.
9. Students who plan on studying at postgraduate level or transfer to the Bachelor of Engineering (Hons) programme should take ENGE601 Engineering Mathematics II.
10. Course offerings are subject to change each year.

For enrolment queries or special requests (eg: enrol in 5 courses per semester, enrol in courses with timetable clash etc), please contact engineer@aut.ac.nz