Engineering

Bachelor of Engineering (Honours) / Computer Science (3785)

Electrical Engineering (ELECAH) / Computer Science (COMPA1)

T1 Entry 2025 Sample Plan

Year 1	
Term 1	**COMP1511** Programming Fundamentals
	MATH1131 Mathematics 1A OR **MATH1141** Higher Mathematics 1A
	PHYS1121 Physics 1A OR **PHYS1131** Higher Physics 1A
Term 2	**MATH1231** Mathematics 1B OR **MATH1241** Higher Mathematics 1B
	PHYS1231 Higher Physics 1B
	COMP1521 Computer Systems Fundamentals
Term 3	**DESN1000** Introduction to Engineering Design and Innovation
	ELEC1111 Electrical Circuit Fundamentals

Year 2	
Term 1	**ELEC2134** Circuits and Signals
	COMP1531 Software Engineering Fundamentals
	ELEC2141 Digital Circuit Design
Term 2	**DESN2000** Engineering Design and Professional Practice
	COMP2521 Data Structures and Algorithms
	ELEC2133 Analogue Electronics
Term 3	**COMP2511** Object-Oriented Design and Programming
	MATH2069 Mathematics 2A

Year 3	
Term 1	**COMP3121** Algorithm Design and Analysis OR **COMP3821** Extended Algorithm Design and Analysis
	ELEC3106 Electronics
	ELEC3115 Electromagnetic Engineering
Term 2	**MATH2099** Mathematics 2B
	ELEC3105 Electrical Energy
	ELEC3117 Electrical Engineering Design
Term 3	**COMP3900** Computer Science Project
	ELEC3104 Digital Signal Processing

Year 4	
Term 1	**TELE3113** Analogue and Digital Communications
	ELEC4122 Strategic Leadership and Ethics
	COMP4920 Professional Issues and Ethics in Information Technology
Term 2	**ELEC3114** Control Systems
	Discipline Elective
Term 3	**ELEC4123** Electrical Design Proficiency
	Discipline Elective
	Disciplinary / Breadth Elective

Year 5	
Term 1	**ELEC4951** Research Thesis A
	Computing Elective
	Computing Elective
Term 2	**ELEC4952** Research Thesis B
	Computing Elective
	Computing Elective
Term 3	**ELEC4953** Research Thesis C
	Computing Elective
	Discipline Elective

NOTES

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Compulsory Training Component: There is a program requirement of 60 days approved Industrial Training ENGG4999

Engineering

Bachelor of Engineering (Honours) / Computer Science (3785)

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T2 Entry 2025 Sample Plan

	Year 1	Year 2	Year 3	Year 4	Year 5
Term 2	**COMP1511** Programming Fundamentals	**COMP2521** Data Structures and Algorithms	**MATH2099** Mathematics 2B	**ELEC3105** Electrical Energy	**ELEC4951** Research Thesis A
	MATH1131① Mathematics 1A	**DESN2000** Engineering Design and Professional Practice	**Discipline Elective**	**ELEC3114** Control Systems	**Discipline Elective**
	PHYS1121 Physics 1A OR **PHYS1131** Higher Physics 1A			**ELEC3117** Electrical Engineering Design	**Computing Elective**
Term 3	**MATH1231** Mathematics 1B OR **MATH1241** Higher Mathematics 1B	**MATH2069** Mathematics 2A	**COMP4920** Professional Issues and Ethics in Information Technology	**ELEC3104** Digital Signal Processing	**ELEC4952** Research Thesis B
	COMP1531 Software Engineering Fundamentals	**COMP2511** Object-Oriented Design and Programming	**ELEC2134** Circuits and Signals	**ELEC4123** Electrical Design Proficiency	**Computing Elective**
	PHYS1231 Higher Physics 1B	**Disciplinary / Breadth Elective**	**Computing Elective**		**Computing Elective**
Term 1	**COMP1521** Computer Systems Fundamentals	**ELEC3115** Electromagnetic Engineering	**COMP3121** Algorithm Design and Analysis OR **COMP3821** Extended Algorithm Design and Analysis	**ELEC3106** Electronics	**ELEC4953** Research Thesis C
	DESN1000 Introduction to Engineering Design and Innovation	**ELEC1111** Electrical Circuit Fundamentals	**COMP3900** Computer Science Project	**TELE3113** Analogue and Digital Communications	**Computing Elective**
		ELEC2141 Digital Circuit Design	**ELEC3115** Electromagnetic Engineering	**ELEC4122** Strategic Leadership and Ethics	**Discipline Elective**

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①**Students can take MATH1131 or MATH1141 depending on term offerings**

Engineering

Bachelor of Engineering (Honours) / Computer Science (3785)

Electrical Engineering (ELECAH) / Computer Science (COMPA1)

T3 Entry 2025 Sample Plan

Year 1	
Term 3	**COMP1511** Programming Fundamentals
	MATH1131 Mathematics 1A OR **MATH1141** Higher Mathematics 1A
	PHYS1121 Physics 1A OR **PHYS1131** Higher Physics 1A
Term 1	**DESN1000** Introduction to Engineering Design and Innovation
	ELEC1111 Electrical Circuit Fundamentals
	ELEC2141 Digital Circuit Design
Term 2	**MATH1231** Mathematics 1B OR **MATH1241** Higher Mathematics 1B
	PHYS1231 Higher Physics 1B

Year 2	
Term 3	**MATH2069** Mathematics 2A
	COMP1521 Computer Systems Fundamentals
	COMP1531 Software Engineering Fundamentals
Term 1	**ELEC2134** Circuits and Signals
	ELEC3115 Electromagnetic Engineering
Term 2	**DESN2000** Engineering Design and Professional Practice
	ELEC2133 Analogue Electronics
	MATH2099 Mathematics 2B

Year 3	
Term 3	**COMP2521** Data Structures and Algorithms
	ELEC3104 Digital Signal Processing
Term 1	**ELEC3106** Electronics
	TELE3113 Analogue and Digital Communications
	COMP2511 Object-Oriented Design and Programming
Term 2	**COMP3121** Algorithm Design and Analysis OR **COMP3821** Extended Algorithm Design and Analysis
	ELEC3105 Electrical Energy
	ELEC3114 Control Systems

Year 4	
Term 3	**ELEC4123** Electrical Design Proficiency
	COMP4920 Professional Issues and Ethics in Information Technology
Term 1	**COMP3900** Computer Science Project
	ELEC4122 Strategic Leadership and Ethics
	Discipline Elective
Term 2	**ELEC3117** Electrical Engineering Design
	Disciplinary / Breadth Elective
	Computing Elective

Year 5	
Term 3	**ELEC4951** Research Thesis A
	Discipline Elective
	Discipline Elective
Term 1	**ELEC4952** Research Thesis B
	Computing Elective
	Computing Elective
Term 2	**ELEC4953** Research Thesis C
	Computing Elective
	Computing Elective

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