

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

Telecommunications (TELEAH) / Computer Science (COMPA1)

T1 Entry 2024 Sample Plan



Year 1		Year 2		Year 3		Year 4		Year 5	
Term 1	COMP1511 Programming Fundamentals	Term 1	ELEC2134 Circuits and Signals	Term 1	ELEC3115 Electromagnetic Engineering	Term 1	COMP3121 Algorithm Design and Analysis OR COMP3821 Extended Algorithm Design and Analysis	Term 1	ELEC4951 Research Thesis A
	MATH1131 Mathematics 1A OR MATH1141 Higher Mathematics 1A		ELEC2141 Digital Circuit Design		ELEC3106 Electronics		TELE3113 Analogue and Digital Communications		Computing Elective
	PHYS1121 Physics 1A OR PHYS1131 Higher Physics 1A		ELEC1111 Electrical Circuit Fundamentals		COMP2521 Data Structures and Algorithms		ELEC4122 Strategic Leadership and Ethics		Computing Elective
Term 2	COMP1531 Software Engineering Fundamentals	Term 2	DESN2000 Engineering Design and Professional Practice	Term 2	ELEC3117 Electrical Engineering Design	Term 2	Disciplinary Elective	Term 2	ELEC4952 Research Thesis B
	COMP1521 Computer Systems Fundamentals		ELEC2133 Analogue Electronics		ELEC3114 Control Systems		Breadth Elective		Disciplinary Elective
Term 3	PHYS1231 Higher Physics 1B	Term 3	MATH2099 Mathematics 2B	Term 3	TELE3118 Network Technologies	Term 3	COMP3900 Computer Science Project	Term 3	ELEC4953 Research Thesis C
	MATH1231 Mathematics 1B OR MATH1241 Higher Mathematics 1B		MATH2069 Mathematics 2A		ELEC4123 Electrical Design Proficiency		COMP4920 Professional Issues and Ethics in Information Technology		Computing Elective
	DESN1000 Introduction to Engineering Design and Innovation		COMP2511 Object-Oriented Design and Programming		ELEC3104 Digital Signal Processing		TELE3119 Trusted Networks		Computing Elective

NOTES	<p>This is intended as a guide only. Courses do not need to be studied in the exact structure that they appear here.</p>
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T2 Entry 2024 Sample Plan



Year 1		Year 2		Year 3		Year 4		Year 5	
Term 2	COMP1511 Programming Fundamentals	Term 2	COMP2521 Data Structures and Algorithms	Term 2	ELEC2133 Analogue Electronics	Term 2	ELEC3117 Electrical Engineering Design	Term 2	ELEC4951 Research Thesis A
	MATH1131 ^① Mathematics 1A		DESN2000 Engineering Design and Professional Practice		MATH2099 Mathematics 2B		ELEC3114 Control Systems		Computing Elective
	PHYS1121 ^② Physics 1A						Computing Elective		Computing Elective
Term 3	COMP1531 Software Engineering Fundamentals	Term 3	MATH2069 Mathematics 2A	Term 3	COMP4920 Professional Issues and Ethics in Information Technology	Term 3	TELE3118 Network Technologies	Term 3	ELEC4952 Research Thesis B
	COMP1521 Computer Systems Fundamentals		ELEC2141 Digital Circuit Design		ELEC3104 Digital Signal Processing		TELE3119 Trusted Networks		Disciplinary Elective
			ELEC1111 Electrical Circuit Fundamentals		Breadth Elective		ELEC4123 Electrical Design Proficiency		Disciplinary Elective
Term 1	PHYS1231 Higher Physics 1B	Term 1	COMP2511 Object-Oriented Design and Programming	Term 1	ELEC3115 Electromagnetic Engineering	Term 1	TELE3113 Analogue and Digital Communications	Term 1	ELEC4953 Research Thesis C
	MATH1231 Mathematics 1B QB MATH1241 Higher Mathematics 1B		ELEC2134 Circuits and Signals		ELEC4122 Strategic Leadership and Ethics		COMP3900 Computer Science Project		Computing Elective
	DESN1000 Introduction to Engineering Design and Innovation				ELEC3106 Electronics		COMP3121 Algorithm Design and Analysis QB COMP3821 Extended Algorithm Design and Analysis		Computing Elective

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	①Students can take MATH1131 or MATH1141 depending on term offerings ②Students can take PHYS1121 or PHYS1131 depending on term offerings

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T3 Entry 2024 Sample Plan



Year 1		Year 2		Year 3		Year 4		Year 5	
Term 3	COMP1511 Programming Fundamentals	Term 3	COMP2521 Data Structures and Algorithms	Term 3	COMP2511 Object-Oriented Design and Programming	Term 3	TELE3118 Network Technologies	Term 3	ELEC4951 Research Thesis A
	MATH1131 Mathematics 1A OR MATH1141 Higher Mathematics 1A		MATH2069 Mathematics 2A		ELEC3104 Digital Signal Processing		TELE3119 Trusted Networks		Computing Elective
	PHYS1121 Physics 1A OR PHYS1131 Higher Physics 1A		ELEC2133 Analogue Electronics				ELEC4123 Electrical Design Proficiency		Computing Elective
Term 1	PHYS1231 Higher Physics 1B	Term 1	ELEC1111 Electrical Circuit Fundamentals	Term 1	COMP3121 Algorithm Design and Analysis OR COMP3821 Extended Algorithm Design and Analysis	Term 1	COMP4920 Professional Issues and Ethics in Information Technology	Term 1	ELEC4952 Research Thesis B
	MATH1231 Mathematics 1B OR MATH1241 Higher Mathematics 1B		ELEC2134 Circuits and Signals		ELEC3115 Electromagnetic Engineering		TELE3113 Analogue and Digital Communications		Disciplinary Elective
	DESN1000 Introduction to Engineering Design and Innovation		ELEC2141 Digital Circuit Design		ELEC3106 Electronics		ELEC4122 Strategic Leadership and Ethics		Computing Elective
Term 2	COMP1521 Computer Systems Fundamentals	Term 2	DESN2000 Engineering Design and Professional Practice	Term 2	ELEC3117 Electrical Engineering Design	Term 2	COMP3900 Computer Science Project	Term 2	ELEC4953 Research Thesis C
	COMP1531 Software Engineering Fundamentals		MATH2099 Mathematics 2B		ELEC3114 Control Systems		Disciplinary Elective		Computing Elective
					Breadth Elective				Computing Elective

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