Engineering

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

Mechanical Engineering (MECHAH) / 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**	**COMP1521** Computer Systems Fundamentals	**Term 1**	**COMP2511** Object-Oriented Design and Programming	**Term 1**	**MMAN3400** Mechanics of Solids 2	**Term 1**	**MMAN4951** Research Thesis A
	MATH1131 Mathematics 1A OR **MATH1141** Higher Mathematics 1A		**MATH2019** Engineering Mathematics 2E		**MMAN2700** Thermodynamics		**COMP3121** Algorithm Design and Analysis OR **COMP3821** Extended Algorithm Design and Analysis		**Computing Elective**
	PHYS1121 Physics 1A OR **PHYS1131** Higher Physics 1A		**ENGG2400** Mechanics of Solids 1		**MECH3110** Mechanical Design 1		**Disciplinary Elective**		**Disciplinary Elective**
Term 2	**MATH1231** Mathematics 1B OR **MATH1241** Higher Mathematics 1B	**Term 2**	**COMP2521** Data Structures and Algorithms	**Term 2**	**DESN3000** Strategic Design Innovation	**Term 2**	**MECH4100** Mechanical Design 2	**Term 2**	**MMAN4952** Research Thesis B
	COMP1531 Software Engineering Fundamentals		**MMAN1130** Design and Manufacturing		**MECH3610** Advanced Thermofluids		**Disciplinary Elective**		**Computing Elective**
					MMAN3200 Linear Systems and Control		**Computing Elective**		**Computing Elective**
Term 3	**DESN1000** Introduction to Engineering Design and Innovation	**Term 3**	**ENGG2500** Fluid Mechanics for Engineers	**Term 3**	**COMP3900** Computer Science Project	**Term 3**	**COMP4920** Professional Issues and Ethics in Information Technology	**Term 3**	**MMAN4953** Research Thesis C
	ELEC1111 Electrical Circuit Fundamentals		**DESN2000** Engineering Design and Professional Practice		**MATH2089** Numerical Methods and Statistics		**Disciplinary Elective**		**Computing Elective**
	ENGG1300 Engineering Mechanics		**MMAN2300** Engineering Mechanics 2						**Disciplinary Elective**

NOTES	This is intended as a guide only. Courses do not need to be studied in the exact structure that they appear here.

Information is correct as of 01.05.2024 and is based on proposed prerequisites and course availability. This is to be used as a guide only and does not replace individual advice. Refer to the Handbook and Class Timetable for the relevant term to check availability for these courses. Contact The Nucleus: Student Hub for further assistance. CRICOS Provider Code 00098G

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

Mechanical Engineering (MECHAH) / Computer Science (COMPA1)
T2 Entry 2024 Sample Plan

	Year 1		Year 2		Year 3		Year 4		Year 5
Term 2	COMP1511 Programming Fundamentals	**Term 2**	COMP1521 Computer Systems Fundamentals	**Term 2**	MMAN3200 Linear Systems and Control	**Term 2**	MMAN3200 Linear Systems and Control	**Term 2**	MMAN4951 Research Thesis A
	ENGG1300 Engineering Mechanics		MMAN1130 Design and Manufacturing		DESN3000 Strategic Design Innovation		MECH4100 Mechanical Design 2		Computing Elective
					MECH3610 Advanced Thermofluids		Disciplinary Elective		Disciplinary Elective
Term 3	MATH1131 Mathematics 1A OR MATH1141 Higher Mathematics 1A	**Term 3**	COMP2521 Data Structures and Algorithms	**Term 3**	MMAN2700 Thermodynamics	**Term 3**	Computing Elective	**Term 3**	MMAN4952 Research Thesis B
	PHYS1121 Physics 1A OR PHYS1131 Higher Physics 1A		ENGG2500 Fluid Mechanics for Engineers		MATH2089 Numerical Methods and Statistics		Disciplinary Elective		Computing Elective
	ELEC1111 Electrical Circuit Fundamentals		DESN2000 Engineering Design and Professional Practice						Computing Elective
Term 1	COMP1531 Software Engineering Fundamentals	**Term 1**	MATH2019 Engineering Mathematics 2E	**Term 1**	COMP3121 Algorithm Design and Analysis OR COMP3821 Extended Algorithm Design and Analysis	**Term 1**	MMAN3400 Mechanics of Solids 2	**Term 1**	MMAN4953 Research Thesis C
	DESN1000 Introduction to Engineering Design and Innovation		ENGG2400 Mechanics of Solids 1		COMP3900 Computer Science Project		COMP4920 Professional Issues and Ethics in Information Technology		Computing Elective
	MATH1231 Mathematics 1B OR MATH1241 Higher Mathematics 1B		COMP2511 Object-Oriented Design and Programming		MECH3110 Mechanical Design 1		Computing Elective		Disciplinary Elective

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	Year 1		Year 2		Year 3		Year 4		Year 5
Term 3	**COMP1511** Programming Fundamentals	Term 3	**MMAN1130** Design and Manufacturing	Term 3	**ENGG2500** Fluid Mechanics for Engineers	Term 3	**COMP3900** Computer Science Project	Term 3	**MMAN4951** Research Thesis A
	DESN1000 Introduction to Engineering Design and Innovation		**ENGG1300** Engineering Mechanics		**DESN2000** Engineering Design and Professional Practice		**COMP3121** Algorithm Design and Analysis OR **COMP3821** Extended Algorithm Design and Analysis		**Computing Elective**
	ELEC1111 Electrical Circuit Fundamentals				**MMAN2700** Thermodynamics		**Disciplinary Elective**		**Disciplinary Elective**
Term 1	**MATH1131** Mathematics 1A OR **MATH1141** Higher Mathematics 1A	Term 1	**MATH2019** Engineering Mathematics 2E	Term 1	**MECH3110** Mechanical Design 1	Term 1	**MMAN3400** Mechanics of Solids 2	Term 1	**MMAN4952** Research Thesis B
	PHYS1121 Physics 1A OR **PHYS1131** Higher Physics 1A		**COMP2521** Data Structures and Algorithms		**MATH2089** Numerical Methods and Statistics		**Disciplinary Elective**		**Computing Elective**
	COMP1521 Computer Systems Fundamentals		**ENGG2400** Mechanics of Solids 1						**Computing Elective**
Term 2	**MATH1231** Mathematics 1B OR **MATH1241** Higher Mathematics 1B	Term 2	**COMP2511** Object-Oriented Design and Programming	Term 2	**MECH3610** Advanced Thermofluids	Term 2	**MECH4100** Mechanical Design 2	Term 2	**MMAN4953** Research Thesis C
	COMP1531 Software Engineering Fundamentals		**MMAN2300** Engineering Mechanics 2		**MMAN3200** Linear Systems and Control		**COMP4920** Professional Issues and Ethics in Information Technology		**Computing Elective**
			Disciplinary Elective		**DESN3000** Strategic Design Innovation		**Computing Elective**		**Disciplinary Elective**

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