Engineering

NOTES

Bachelor of Engineering (Honours) (3707) <u>Quantum Engineering (ELECCH)</u> T1 Entry 2023 Sample Plan



Year 1		Year 2		Year 3		Year 4	
Term 1	DESN1000 Intro. to Eng. Design and Innovation	Term 1	ELEC2141 Digital Circuit Design	Term 1	ELEC3115 Electromagnetic Engineering	Term 1	ELEC4122 Strategic Leadership & Ethics
	ELEC1111 Electrical Circuit Fundamentals		ELEC2134 Circuits and Signals		ELEC3106 Electronics		Free Elective OR Discipline Elective
	MATH1131 <u>OR</u> MATH1141 (Higher) Mathematics 1A		General Education Course		TELE9757 Quantum Communications		ELEC4951 Research Thesis A (4 UoC)
Term 2	PHYS1131 Higher Physics 1A	Term 2	DESN2000 Engineering Design & Professional Practice	Term 2	ELEC3117 Electrical Engineering Design	Term 2	Discipline Elective
	MATH1231 <u>OR</u> MATH1241 (Higher) Mathematics 1B		MATH2099 Mathematics 2B		ELEC3114 Control Systems		ELEC4605 Quantum Devices and Computers
	COMP1511 Programming Fundamentals		ELEC2133 Analogue Electronics		PHYS3118 [^] Quantum Physics of Solids and Devices		ELEC4952 Research Thesis B (4 UoC)
Term 3	PHYS1231 Higher Physics 1B	Term 3	ELEC3104 Digital Signal Processing	Term 3	General Education Course	Term 3	ELEC4123 Electrical Design Proficiency
	MATH2069 Mathematics 2A		ELEC3705 Fundamentals of Quantum Engineering		Breadth/Discipline Elective		ELEC4953 Research Thesis C (4 UoC)
					Free Elective OR Discipline Elective		

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

^Students in quantum engineering do not need to meet the handbook pre-requisites, ELECCH stream must be declared

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 15/5/2023 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

Engineering

NOTES

Bachelor of Engineering (Honours) (3707) <u>Quantum Engineering (ELECCH)</u> T2 Entry 2023 Sample Plan



Year 1		Year 2		Year 3		Year 4	
Term 2	COMP1511 Programming Fundamentals	Term 2	DESN2000 Engineering Design & Professional Practice	Term 2	ELEC3117 Electrical Engineering Design	Term 2	Discipline Elective
	MATH1131 Mathematics 1A		MATH2099 Mathematics 2B		ELEC3114 Control Systems		Free Elective OR Discipline Elective
	PHYS1131 Higher Physics 1A		ELEC2133 Analogue Electronics		PHYS3118^ Quantum Physics of Solids and Devices		ELEC4951 Research Thesis A (4 UoC)
Term 3	DESN1000 Intro. to Eng. Design and Innovation	Term 3	ELEC3104 Digital Signal Processing	Term 3	General Education Course	Term 3	ELEC4123 Electrical Design Proficiency
	ELEC1111 Electrical Circuit Fundamentals		MATH2069 Mathematics 2A		ELEC4605 Quantum Devices and Computers		ELEC4952 Research Thesis B (4 UoC)
	MATH1231 Mathematics 1B		ELEC3705 Fundamentals of Quantum Engineering				
	ELEC2134 Circuits and Signals	Term 1	ELEC3115 Electromagnetic Engineering	Term 1	TELE9757 Quantum Communications	Term 1	ELEC4122 Strategic Leadership & Ethics
Term 1	ELEC2141 Digital Circuit Design		ELEC3106 Electronics		Breadth/Discipline Elective		Free Elective OR Discipline Elective
	PHYS1231 Higher Physics 1B				General Education Course		ELEC4953 Research Thesis C (4 UoC)

Compulsory Training Component: There is a program requirement of 60 days approved <u>Industrial Training</u> ENGG4999

[^]Students in quantum engineering need to have ELEC3705 completed as a pre-req, instead of listed pre-requisites on the handbook, ELECCH stream must be declared.

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Engineering

NOTES

Bachelor of Engineering (Honours) (3707) <u>Quantum Engineering (ELECCH)</u> T3 Entry 2023 Sample Plan



Year 1		Year 2		Year 3		Year 4	
Term 3	DESN1000 Intro. to Eng. Design and Innovation	Term 3	MATH2069 Mathematics 2A	Term 3	ELEC3104 Digital Signal Processing	Term 3	Free Elective OR Discipline Elective
	PHYS1131 Higher Physics 1A		ELEC3705 Fundamentals of Quantum Engineering		General Education Course		ELEC4605 Quantum Devices and Computers
	MATH1131 <u>OR</u> MATH1141 (Higher) Mathematics 1A		General Education Course				ELEC4951 Research Thesis A (4 UoC)
	ELEC1111 Electrical Circuit Fundamentals	Term 1	ELEC2134 Circuits and Signals	Term 1	Breadth/Discipline Elective	Term 1	ELEC4122 Strategic Leadership & Ethics
Term 1	PHYS1231 Higher Physics 1B		ELEC2141 Digital Circuit Design		ELEC3106 Electronics		ELEC4123 Electrical Design Proficiency
	MATH1231 <u>OR</u> MATH1241 (Higher) Mathematics 1B		ELEC3115 Electromagnetic Engineering		TELE9757 Quantum Communications		ELEC4952 Research Thesis B (4 UoC)
	COMP1511 Programming Fundamentals	Term 2	DESN2000 Engineering Design & Professional Practice	Term 2	ELEC3114 Control Systems	Term 2	
Term 2	MATH2099 Mathematics 2B		PHYS3118 [^] Quantum Physics of Solids and Devices		ELEC3117 Electrical Engineering Design		Free Elective OR Discipline Elective
			ELEC2133 Analogue Electronics		Discipline Elective		ELEC4953 Research Thesis C (4 UoC)

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

^Students in quantum engineering do not need to meet the handbook pre-requisites, ELECCH stream must be declared

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