

Engineering

Bachelor of Engineering (Honours) (3707)

Mechatronic Engineering (MTRNAH)

T1 Entry 2024 Sample Plan



Year 1		Year 2		Year 3		Year 4	
Term 1	DESN1000 Engineering Design and Innovation	Term 1	MATH2019 Engineering Mathematics 2E <u>OR</u> MATH2018 Engineering Mathematics 2D	Term 1	MMAN3200 Linear Systems and Control	Term 1	MTRN3020 Modelling and Control of Mechatronic Systems
	PHYS1121 Physics 1A <u>OR</u> PHYS1131 Higher Physics 1A		MATH2089 Numerical Methods and Statistics		Discipline Elective Course		MTRN4010 Advanced Autonomous Systems
	MATH1131 Mathematics 1A <u>OR</u> MATH1141 Higher Mathematics 1A		ELEC2141 Digital Circuit Design		Free Elective Course		MMAN4951 (4 UoC) Research Thesis A
Term 2	MATH1231 Mathematics 1B <u>OR</u> MATH1241 Higher Mathematics 1B	Term 2	COMP1531 Software Engineering Fundamentals	Term 2	MTRN3100 Robot Design	Term 2	MTRN4230 Robotics
	MMAN1130 Design and Manufacturing		MMAN2300 Engineering Mechanics 2		DESN3000 Strategic Design Innovation		Free Elective Course
Term 3	COMP1511 Programming Fundamentals	Term 3	ENGG2400* Mechanics of Solids 1	Term 3	General Education Course	Term 3	MMAN4952 (4 UoC) Research Thesis B
	ENGG1300 Engineering Mechanics		DESN2000 Engineering Design and Professional Practice		MTRN3500 Computing Applications in Mechatronics Systems		General Education Course
	ELEC1111 Electrical Circuit Fundamentals		MTRN2500 Computing for Mechatronic Engineers		Discipline Elective Course		Discipline Elective Course
							MMAN4953 (4 UoC) Research Thesis C

NOTES	Compulsory Training Component: There is a program requirement of 60 days approved Industrial Training ENGG4999
	*ENGG2400 <u>or</u> ENGG2500 (Term 1 or 3) <u>or</u> MMAN2700 (Term 1)
	At least 6 UOC of discipline electives must be chosen from the "recommended elective list" in the handbook.
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T2 Entry 2024 Sample Plan



Year 1		Year 2		Year 3		Year 4	
Term 2	PHYS1121 Physics 1A OR PHYS1131 Higher Physics 1A	Term 2	COMP1531 Software Engineering Fundamentals	Term 2	MMAN2300 Engineering Mechanics 2	Term 2	MTRN3100 Robot Design
	MATH1131 Mathematics 1A OR MATH1141 Higher Mathematics 1A		MATH2019 Engineering Mathematics 2E OR MATH2018 Engineering Mathematics 2D		DESN3000 Strategic Design Innovation		MTRN4230 Robotics
	MMAN1130 Design and Manufacturing		ENGG2400* Mechanics of Solids 1		General Education Course		MMAN4951 (4 UoC) Research Thesis A
Term 3	DESN1000 Engineering Design and Innovation	Term 3	MATH2089 Numerical Methods and Statistics	Term 3	MTRN3500 Computing Applications in Mechatronics Systems	Term 3	Discipline Elective Course
	COMP1511 Programming Fundamentals		DESN2000 Engineering Design and Professional Practice		Free Elective Course		Discipline Elective Course
	ENGG1300 Engineering Mechanics		MTRN2500 Computing for Mechatronic Engineers		General Education Course		MMAN4952 (4 UoC) Research Thesis B
Term 1	ELEC1111 Electrical Circuit Fundamentals	Term 1	ELEC2141 Digital Circuit Design	Term 1	MMAN3200 Linear Systems and Control	Term 1	MTRN3020 Modelling and Control of Mechatronic Systems
	MATH1231 Mathematics 1B OR MATH1241 Higher Mathematics 1B		Free Elective Course		Discipline Elective Course		MTRN4010 Advanced Autonomous Systems
							MMAN4953 (4 UoC) Research Thesis C

NOTES	Compulsory Training Component: There is a program requirement of 60 days approved Industrial Training ENGG4999
	*ENGG2400 <u>or</u> ENGG2500 (Term 1 or 3) <u>or</u> MMAN2700 (Term 1)
	At least 6 UOC of discipline electives must be chosen from the "recommended elective list" in the handbook.
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T3 Entry 2024 Sample Plan



Year 1		Year 2		Year 3		Year 4	
Term 3	PHYS1121 Physics 1A <u>OR</u> PHYS1131 Higher Physics 1A	Term 3	ENGG1300 Engineering Mechanics	Term 3	MTRN2500 Computing for Mechatronic Engineers	Term 3	MTRN3500 Computing Applications in Mechatronics Systems
	MATH1131 Mathematics 1A <u>OR</u> MATH1141 Higher Mathematics 1A		MATH2019 Engineering Mathematics 2E <u>OR</u> MATH2018 Engineering Mathematics 2D		Free Elective Course		Discipline Elective Course
	COMP1511 Programming Fundamentals		DESN2000 Engineering Design and Professional Practice		General Education Course		MMAN4951 (4 UoC) Research Thesis A
Term 1	DESN1000 Engineering Design and Innovation	Term 1	COMP1531 Software Engineering Fundamentals	Term 1	MMAN3200 Linear Systems and Control	Term 1	MTRN3020 Modelling and Control of Mechatronic Systems
	ELEC1111 Electrical Circuit Fundamentals		ELEC2141 Digital Circuit Design		General Education Course		MTRN4010 Advanced Autonomous Systems
	MATH1231 Mathematics 1B <u>OR</u> MATH1241 Higher Mathematics 1B		MATH2089 Numerical Methods and Statistics		Discipline Elective Course		MMAN4952 (4 UoC) Research Thesis B
Term 2	Free Elective Course	Term 2	MMAN2300 Engineering Mechanics 2	Term 2	MTRN3100 Robot Design	Term 2	MTRN4230 Robotics
	MMAN1130 Design and Manufacturing		ENGG2400* Mechanics of Solids 1		DESN3000 Strategic Design Innovation		Discipline Elective Course
							MMAN4953 (4 UoC) Research Thesis C

NOTES

Compulsory Training Component: There is a program requirement of 60 days approved [Industrial Training](#) ENGG4999

*ENGG2400 or ENGG2500 (Term 1 or 3) or MMAN2700 (Term 1)

At least 6 UOC of discipline electives must be chosen from the "recommended elective list" in the handbook.

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