

Bachelor of Engineering (Honours) (3707)

Mechanical & Manufacturing Engineering (MANFBH)

T1 Entry 2023 Sample Plan



Year 1		Year 2		Year 3		Year 4	
Term 1	DESN1000 Engineering Design and Innovation	Term 1	MATH2018 OR MATH2019 Mathematics 2D (2E)	Term 1	Discipline Elective Course	Term 1	MANF4150 Design of Intelligent Manufacturing Systems
	PHYS1121 OR PHYS1131 (Higher) Physics 1A		MATH2089 Numerical Methods and Statistics		MECH3110 Mechanical Design 1		MANF4430 Reliability and Maintenance Engineering
	MATH1131 OR MATH1141 (Higher) Mathematics 1A		MMAN2700 Thermodynamics		MANF4100 Design and Analysis of Product-Process Systems		MMAN4951 (4 UoC) Research Thesis A
Term 2	MATH1231 OR MATH1241 (Higher) Mathematics 1B	Term 2	MMAN2300 Engineering Mechanics 2	Term 2	MANF3510 Process Technology and Automation	Term 2	MANF4611 Process Modelling and Simulation
	MMAN1130 Design and Manufacturing		ENGG2400 Mechanics of Solids 1		DESN3000 Strategic Design Innovation		General Education Course
	ENGG1811 OR COMP1911 OR COMP1511 Programming Fundamentals		Free Elective Course		MMAN3200 Linear Systems and Control		MMAN4952 (4 UoC) Research Thesis B
Term 3	ENGG1300 Engineering Mechanics	Term 3	DESN2000 Engineering Design and Professional Practice	Term 3	MMAN4400 Engineering Management	Term 3	Discipline Elective Course
	*Free Elective Course		ENGG2500 Fluid Mechanics for Engineers		General Education Course		MMAN4953 (4 UoC) Research Thesis C
	ELEC1111 Electrical Circuit Fundamentals						

NOTES

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

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

***MATS1110 is recommended Free Elective Course to be attempted during Year 1.**

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T2 Entry 2023 Sample Plan



Year 1		Year 2		Year 3		Year 4	
Term 2	ENGG1811 OR COMP1911 OR COMP1511 Programming Fundamentals	Term 2	MMAN1130 Design and Manufacturing	Term 2	MANF3510 Process Technology and Automation	Term 2	MANF4611 Process Modelling and Simulation
	PHYS1121 OR PHYS1131 (Higher) Physics 1A		MMAN2300 Engineering Mechanics 2		DESN3000 Strategic Design Innovation		General Education Course
	MATH1131 OR MATH1141 (Higher) Mathematics 1A		ENGG2400 Mechanics of Solids 1		MMAN3200 Linear Systems and Control		MMAN4951 (4 UoC) Research Thesis A
Term 3	*Free Elective Course	Term 3	DESN2000 Engineering Design and Professional Practice	Term 3	MMAN4400 Engineering Management	Term 3	Discipline Elective Course
	MATH1231 OR MATH1241 (Higher) Mathematics 1B		ENGG2500 Fluid Mechanics for Engineers		MATH2089 Numerical Methods and Statistics		Discipline Elective Course
	ENGG1300 Engineering Mechanics				General Education Course		MMAN4952 (4 UoC) Research Thesis B
Term 1	ELEC1111 Electrical Circuit Fundamentals	Term 1	MMAN2700 Thermodynamics	Term 1	MANF4100 Design and Analysis of Product-Process Systems	Term 1	MANF4150 Design of Intelligent Manufacturing Systems
	MATH2018 OR MATH2019 Mathematics 2D (2E)		MECH3110 Mechanical Design 1		MANF4430 Reliability and Maintenance Engineering		MMAN4953 (4 UoC) Research Thesis C
	DESN1000 Engineering Design and Innovation				Free Elective Course		

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T3 Entry 2023 Sample Plan



Year 1		Year 2		Year 3		Year 4	
Term 3	DESN1000 Engineering Design and Innovation	Term 3	DESN2000 Engineering Design and Professional Practice	Term 3	MMAN4400 Engineering Management	Term 3	Discipline Elective Course
	PHYS1121 OR PHYS1131 (Higher) Physics 1A		ENGG2500 Fluid Mechanics for Engineers		Discipline Elective Course		General Education Course
	MATH1131 OR MATH1141 (Higher) Mathematics 1A		ENGG1300 Engineering Mechanics		General Education Course		MMAN4951 (4 UoC) Research Thesis A
Term 1	MATH1231 OR MATH1241 (Higher) Mathematics 1B	Term 1	MATH2018 OR MATH2019 Mathematics 2D (2E)	Term 1	MECH3110 Mechanical Design 1	Term 1	MANF4150 Design of Intelligent Manufacturing Systems
	ELEC1111 Electrical Circuit Fundamentals		MATH2089 Numerical Methods and Statistics		MANF4100 Design and Analysis of Product-Process Systems		MANF4430 Reliability and Maintenance Engineering
	Free Elective Course		MMAN2700 Thermodynamics				MMAN4952 (4 UoC) Research Thesis B
Term 2	MMAN1130 Design and Manufacturing	Term 2	MMAN2300 Engineering Mechanics 2	Term 2	MANF3510 Process Technology and Automation	Term 2	MANF4611 Process Modelling and Simulation
	ENGG1811 OR COMP1911 OR COMP1511 Programming Fundamentals		ENGG2400 Mechanics of Solids 1		DESN3000 Strategic Design Innovation		MMAN4953 (4 UoC) Research Thesis C
	*Free Elective Course				MMAN3200 Linear Systems and Control		

NOTES

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

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***MATS1110 is recommended Free Elective Course to be attempted during year 1.**