Engineering

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

Renewable Energy Engineering (SOLABH) / Computer Science (COMPA1)

T1 Entry 2025 Sample Plan



	Year 1
	COMP1511 Programming Fundamentals
Term 1	MATH1131 Mathematics 1A <u>OR</u> MATH1141 Higher Mathematics 1A
	PHYS1121 Physics 1A <u>OR</u> PHYS1131 Higher Physics 1A
	MATH1231 Mathematics 1B <u>OR</u> MATH1241 Higher Mathematics 1B
Term 2	PHYS1221 Physics 1B <u>OR</u> PHYS1231 Higher Physics 1B
	COMP1521 Computer Systems Fundamentals
	DESN1000 Introduction to Engineering Design and Innovation
Term 3	ELEC1111 Electrical Circuit Fundamentals

	Year 2
Term 1	COMP1531 Software Engineering Fundamentals
	MATH2018 Engineering Mathematics 2D <u>OR</u> MATH2019 Engineering Mathematics 2E
	MATH2089 Numerical Methods and Statistics
Term 2	SOLA1070 Sustainable Energy
	COMP2521 Data Structures and Algorithms
Term 3	MMAN2700 Thermodynamics
	DESN2000 Engineering Design and Professional Practice
	ELEC2911 Power Engineering for Renewable Energy

	Year 3
Term 1	COMP3121 Algorithm Design and Analysis <u>OR</u> COMP3821 Extended Algorithm Design and Analysis
	SOLA2540 Applied Photovoltaics
Term 2	SOLA2051 Project in Photovoltaics and Renewable Energy
	SOLA5057 Energy Efficiency
	COMP2511 Object-Oriented Design and Programming
Term 3	COMP3900 Computer Science Project
	COMP4920 Professional Issues and Ethics in Information Technology
	Computing Elective

	Year 4	
Term 1	ELEC4122 Strategic Leadership and Ethics	
	SOLA5050 Renewable Energy Policy	
	SOLA5053 Wind Energy Converters	
	SOLA4012 Photovoltaic Systems Design	
Term 2	Discipline Elective	
Term 3	Strand Elective	
	Computing Elective	
	Discipline Elective	

	Year 5
Term 1	SOLA4951 Research Thesis A
	Stand Elective
	Computing Elective
	SOLA4952
	Research Thesis B
Term 2	Strand Elective
	Computing Elective
	SOLA4953
	Research Thesis C
Term 3	Computing Elective
	Computing Elective

NOTES

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

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

Engineering

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

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T2 Entry 2025 Sample Plan



	Year 1
	COMP1511 Programming Fundamentals
Term 2	MATH1131 ① Mathematics 1A
	PHYS1121@ Physics 1A
	DESN1000 Introduction to Engineering Design and Innovation
Term 3	COMP1531 Software Engineering Fundamentals
Term 1	MATH1231 Mathematics 1B <u>OR</u> MATH1241 Higher Mathematics 1B
	PHYS1221 Physics 1B <u>OR</u> PHYS1231 Higher Physics 1B
	ELEC1111 Electrical Circuit Fundamentals

	Year 2	
Term 2	COMP1521 Computer Systems Fundamentals	
	SOLA1070 Sustainable Energy	
	COMP2521 Data Structures and Algorithms	
Term 3	DESN2000 Engineering Design and Professional Practice	
	MATH2089 Numerical Methods and Statistics	
	MMAN2700 Thermodynamics	
Term 1	MATH2018 Engineering Mathematics 2D <u>OR</u> MATH2019 Engineering Mathematics 2E	
	SOLA2540 Applied Photovoltaics	

	Year 3
Term 2	SOLA2051 Project in Photovoltaics and Renewable Energy
	COMP2511 Object-Oriented Design and Programming
	Discipline Elective
Term 3	COMP4920 Professional Issues and Ethics in Information Technology
	ELEC2911 Power Engineering for Renewable Energy
Term 1	COMP3121 Algorithm Design and Analysis <u>OR</u> COMP3821 Extended Algorithm Design and Analysis
	COMP3900 Computer Science Project
	ELEC4122 Strategic Leadership and Ethics

	Year 4	t.
Term 2	SOLA5057 Energy Efficiency	
	SOLA4012 Photovoltaic Systems Design	
	Discipline Elective	
	Strand Elective	
Term 3	Computing Elective	
Term 1	SOLA5050 Renewable Energy Policy	
	SOLA5053 Wind Energy Converters	
	Computing Elective	

	Year 5
Term 2	SOLA4951 Research Thesis A
	Strand Elective
	Computing Elective
	SOLA4952
	Research Thesis B
Term 3	Strand Elective
	Discipline Elective
	SOLA4953
	Research Thesis C
Term 1	Computing Elective
	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

Engineering

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

Renewable Energy Engineering (SOLABH) / Computer Science (COMPA1)

T3 Entry 2025 Sample Plan



	Year 1
Term 3	COMP1511 Programming Fundamentals
	MATH1131 Mathematics 1A <u>OR</u> MATH1141 Higher Mathematics 1A
	PHYS1121 Physics 1A <u>OR</u> PHYS1131 Higher Physics 1A
Term 1	MATH1231 Mathematics 1B <u>OR</u> MATH1241 Higher Mathematics 1B
	PHYS1221 Physics 1B <u>OR</u> PHYS1231 Higher Physics 1B
	COMP1521 Computer Systems Fundamentals
Term 2	DESN1000 Introduction to Engineering Design and Innovation
	SOLA1070 Sustainable Energy

	Year 2	
Term 3	COMP1531 Software Engineering Fundamentals	
	ELEC1111 Electrical Circuit Fundamentals	
	MATH2089 Numerical Methods and Statistics	
Term 1	MATH2018 Engineering Mathematics 2D <u>OR</u> MATH2019 Engineering Mathematics 2E	
	MMAN2700 Thermodynamics	
	COMP2521 Data Structures and Algorithms	
Term 2	SOLA2051 Project in Photovoltaics and Renewable Energy	
	COMP2511 Object-Oriented Design and Programming	

Year 3		
Term 3	SOLA2540 Applied Photovoltaics	
	ELEC2911 Power Engineering for Renewable Energy	
	DESN2000 Engineering Design and Professional Practice	
Term 1	COMP3121 Algorithm Design and Analysis <u>OR</u> COMP3821 Extended Algorithm Design and Analysis	
	Discipline Elective	
Term 2	COMP3900 Computer Science Project	
	COMP4920 Professional Issues and Ethics in Information Technology	
	SOLA4012 Photovoltaic Systems Design	

	Year 4		
Term 3	Strand Elective		
	Discipline Elective	Te	
	Computing Elective		
Term 1	ELEC4122 Strategic Leadership and Ethics		
	SOLA5050 Renewable Energy Policy	Te	
	SOLA5053 Wind Energy Converters		
Term 2	SOLA5057 Energy Efficiency		
	Computing Elective	Te	

Year 5		
Term 3	SOLA4951 Research Thesis A	
	Stand Elective	
	Computing Elective	
Term 1	SOLA4952	
	Research Thesis B	
	Strand Elective	
	Discipline Elective	
Term 2	SOLA4953	
	Research Thesis C	
	Computing Elective	
	Computing Elective	

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