Engineering

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

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

T1 Entry 2025 Sample Plan

	Year 1	Year 2	Year 3	Year 4	Year 5
Term 1	**DESN1000** Introduction to Engineering Design and Innovation	**MMAN2700** Thermodynamics	**COMP1531** Software Engineering Fundamentals	**ELEC4122** Strategic Leadership and Ethics	**SOLA4951** Research Thesis A
	MATH1131 Mathematics 1A OR **MATH1141** Higher Mathematics 1A	**MATH2018** Engineering Mathematics 2D OR **MATH2019** Engineering Mathematics 2E	**SOLA5050** Renewable Energy Policy	**Computing Elective**	**Stand Elective**
	PHYS1121 Physics 1A OR **PHYS1131** Higher Physics 1A	**SOLA2060** Introduction to Electronic Devices	**SOLA5053** Wind Energy Converters	**Computing Elective**	**Computing Elective**
Term 2	**COMP1511** Programming Fundamentals	**COMP1521** Computer Systems Fundamentals	**SOLA5057** Energy Efficiency	**SOLA4012** Photovoltaic Systems Design	**SOLA4952** Research Thesis B
	SOLA1070 Sustainable Energy	**SOLA2051** Project in Photovoltaics and Renewable Energy	**COMP2521** Data Structures and Algorithms	**Discipline Elective**	**Strand Elective**
					Computing Elective
Term 3	**ELEC1111** Electrical Circuit Fundamentals	**DESN2000** Engineering Design and Professional Practice	**COMP3900** Computer Science Project	**COMP3121** Algorithm Design and Analysis OR **COMP3821** Extended Algorithm Design and Analysis	**SOLA4953** Research Thesis C
	MATH1231 Mathematics 1B OR **MATH1241** Higher Mathematics 1B	**SOLA2540** Applied Photovoltaics	**ELEC2911** Power Engineering for Renewable Energy	**Strand Elective**	**COMP4920** Professional Issues and Ethics in Information Technology
	PHYS1221 Physics 1B OR **PHYS1231** Higher Physics 1B	**MATH2089** Numerical Methods and Statistics	**COMP2511** Object-Oriented Design and Programming	**Discipline Elective**	**Computing Elective**

NOTES

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

Engineering

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

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

T2 Entry 2025 Sample Plan

	Year 1	Year 2	Year 3	Year 4	Year 5
Term 2	**SOLA1070** Sustainable Energy	**COMP1521** Computer Systems Fundamentals	**COMP2521** Data Structures and Algorithms	**Discipline Elective**	**SOLA4951** Research Thesis A
	MATH1131 Mathematics 1A	**SOLA2051** Project in Photovoltaics and Renewable Energy	**SOLA5057** Energy Efficiency	**Strand Elective**	**SOLA4012** Photovoltaic Systems Design
	PHYS1121 Physics 1 A OR **PHYS1131** Higher Physics 1A	**MATH2018** Engineering Mathematics 2D	**COMP1531** Software Engineering Fundamentals	**Computing Elective**	**Computing Elective**
Term 3	**DESN1000** Introduction to Engineering Design and Innovation	**DESN2000** Engineering Design and Professional Practice	**ELEC2911** Power Engineering for Renewable Energy	**COMP3900** Computer Science Project	**SOLA4952** Research Thesis B
	COMP1511 Programming Fundamentals	**MATH2089** Numerical Methods and Statistics	**COMP2511** Object-Oriented Design and Programming	**Computing Elective**	**Strand Elective**
		SOLA2540 Applied Photovoltaics			**Discipline Elective**
Term 1	**MATH1231** Mathematics 1B OR **MATH1241** Higher Mathematics 1B	**MMAN2700** Thermodynamics	**COMP3121** Algorithm Design and Analysis OR **COMP3821** Extended Algorithm Design and Analysis	**COMP4920** Professional Issues and Ethics in Information Technology	**SOLA4953** Research Thesis C
	PHYS1221 Physics 1B OR **PHYS1231** Higher Physics 1B	**SOLA2060** Introduction to Electronic Devices	**SOLA5050** Renewable Energy Policy	**Strand Elective**	**ELEC4122** Strategic Leadership and Ethics
	ELEC1111 Electrical Circuit Fundamentals		**SOLA5053** Wind Energy Converters	**Computing Elective**	**Computing Elective**

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Engineering

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

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

T3 Entry 2025 Sample Plan

Year 1	
Term 3	**DESN1000** Introduction to Engineering Design and Innovation
	MATH1131 Mathematics 1A OR **MATH1141** Higher Mathematics 1A
	PHYS1121 Physics 1A OR **PHYS1131** Higher Physics 1A
Term 1	**MATH1231** Mathematics 1B OR **MATH1241** Higher Mathematics 1B
	PHYS1221 Physics 1B OR **PHYS1231** Higher Physics 1B
	ELEC1111 Electrical Circuit Fundamentals
Term 2	**SOLA1070** Sustainable Energy
	COMP1511 Programming Fundamentals

Year 2	
Term 3	**MMAN2700** Thermodynamics
	MATH2089 Numerical Methods and Statistics
	DESN2000 Engineering Design and Professional Practice
Term 1	**MATH2018** Engineering Mathematics 2D OR **MATH2019** Engineering Mathematics 2E
	SOLA2060 Introduction to Electronic Devices
	SOLA2540 Applied Photovoltaics
Term 2	**SOLA2051** Project in Photovoltaics and Renewable Energy
	COMP1531 Software Engineering Fundamentals

Year 3	
Term 3	**ELEC2911** Power Engineering for Renewable Energy
	COMP1521 Computer Systems Fundamentals
Term 1	**COMP2521** Data Structures and Algorithms
	SOLA5050 Renewable Energy Policy
	SOLA5053 Wind Energy Converters
Term 2	**SOLA5057** Energy Efficiency
	Stand Elective
	COMP2511 Object-Oriented Design and Programming

Year 4	
Term 3	**COMP3121** Algorithm Design and Analysis OR **COMP3821** Extended Algorithm Design and Analysis
	Strand Elective
	Computing Elective
Term 1	**ELEC4122** Strategic Leadership and Ethics
	Computing Elective
	Discipline Elective
Term 2	**SOLA4012** Photovoltaic Systems Design
	COMP3900 Computer Science Project

Year 5	
Term 3	**SOLA4951** Research Thesis A
	Stand Elective
	Computing Elective
Term 1	**SOLA4952** Research Thesis B
	Computing Elective
	Discipline Elective
Term 2	**SOLA4953** Research Thesis C
	COMP4920 Professional Issues and Ethics in Information Technology
	Computing Elective

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