Bachelor of Engineering (Honours) / Computer Science (3785)
Photovoltaics and Solar Energy (SOLAAH) / 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	Term 1	**COMP1521** Computer Systems Fundamentals	Term 1	**COMP2521** Data Structures and Algorithms	Term 1	**Discipline Elective**	Term 1	**SOLA4951** Research Thesis A
	MATH1131 Mathematics 1A OR **MATH1141** Higher Mathematics 1A		**MATH2089** Numerical Methods and Statistics		**SOLA3507** Solar Cells		**Stand Elective**		**ELEC4122** Strategic Leadership and Ethics
	PHYS1121 Physics 1A OR **PHYS1131** Higher Physics 1A		**SOLA2060** Introduction to Electronic Devices		**Stand Elective**				**Computing Elective**
Term 2	**COMP1511** Programming Fundamentals	Term 2	**COMP1531** Software Engineering Fundamentals	Term 2	**COMP3900** Computer Science Project	Term 2	**SOLA3010** Low Energy Buildings and Photovoltaics	Term 2	**SOLA4952** Research Thesis B
	SOLA1070 Sustainable Energy		**SOLA2051** Project in Photovoltaics and Renewable Energy		**COMP2511** Object-Oriented Design and Programming		**SOLA3020** Photovoltaic Technology and Manufacturing		**SOLA4012** Photovoltaic Systems Design
			MATH2018 Engineering Mathematics 2D		**Computing Elective**		**Computing Elective**		**SOLA5057** Energy Efficiency
Term 3	**ELEC1111** Electrical Circuit Fundamentals	Term 3	**SOLA2540** Applied Photovoltaics	Term 3	**COMP3121** Algorithm Design and Analysis OR **COMP3821** Extended Algorithm Design and Analysis	Term 3	**COMP4920** Professional Issues and Ethics in Information Technology	Term 3	**SOLA4953** Research Thesis C
	MATH1231 Mathematics 1B		**DESN2000** Engineering Design and Professional Practice		**Discipline Elective**		**Discipline Elective**		**Computing Elective**
	PHYS1221 Physics 1B OR **PHYS1231** Higher Physics 1B						**Stand Elective**		**Computing Elective**

NOTES

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

Bachelor of Engineering (Honours) / Computer Science (3785)
Photovoltaics and Solar Energy (SOLAAH) / Computer Science (COMPA1)
T2 Entry 2025 Sample Plan

	Year 1		Year 2		Year 3		Year 4		Year 5
Term 2	**COMP1511** Programming Fundamentals	**Term 2**	**SOLA1070** Sustainable Energy	**Term 2**	**SOLA3010** Low Energy Buildings and Photovoltaics	**Term 2**	**SOLA4012** Photovoltaic Systems Design	**Term 2**	**SOLA4951** Research Thesis A
	MATH1131 Mathematics 1A		**SOLA2051** Project in Photovoltaics and Renewable Energy		**SOLA3020** Photovoltaic Technology and Manufacturing		**SOLA5057** Energy Efficiency		**Discipline Elective**
	PHYS1121 Physics 1A OR **PHYS1131** Higher Physics 1A		**MATH2018** Engineering Mathematics 2D		**COMP2521** Data Structures and Algorithms		**Computing Elective**		**Strand Elective**
Term 3	**DESN1000** Introduction to Engineering Design and Innovation	**Term 3**	**SOLA2540** Applied Photovoltaics	**Term 3**	**Computing Elective**	**Term 3**	**COMP4920** Professional Issues and Ethics in Information Technology	**Term 3**	**SOLA4952** Research Thesis B
	ELEC1111 Electrical Circuit Fundamentals		**DESN2000** Engineering Design and Professional Practice		**Discipline Elective**		**Strand Elective**		**Discipline Elective**
	COMP1531 Software Engineering Fundamentals								**Computing Elective**
Term 1	**MATH1231** Mathematics 1B OR **MATH1241** Higher Mathematics 1B	**Term 1**	**MATH2089** Numerical Methods and Statistics	**Term 1**	**COMP3121** Algorithm Design and Analysis OR **COMP3821** Extended Algorithm Design and Analysis	**Term 1**	**COMP3900** Computer Science Project	**Term 1**	**SOLA4953** Research Thesis C
	PHYS1221 Physics 1B OR **PHYS1231** Higher Physics 1B		**SOLA2060** Introduction to Electronic Devices		**SOLA3507** Solar Cells		**Computing Elective**		**ELEC4122** Strategic Leadership and Ethics
			COMP1521 Computer Systems Fundamentals		**COMP2511** Object-Oriented Design and Programming		**Strand Elective**		**Computing Elective**

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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)
Photovoltaics and Solar Energy (SOLAAH) / Computer Science (COMPA1)
T3 Entry 2025 Sample Plan

	Year 1		Year 2		Year 3		Year 4		Year 5
Term 3	**ELEC1111** Electrical Circuit Fundamentals	Term 3	**COMP1531** Software Engineering Fundamentals	Term 3	**COMP2521** Data Structures and Algorithms	Term 3	**COMP3121** Algorithm Design and Analysis OR **COMP3821** Extended Algorithm Design and Analysis	Term 3	**SOLA4951** Research Thesis A
	MATH1131 Mathematics 1A OR **MATH1141** Higher Mathematics 1A		**DESN2000** Engineering Design and Professional Practice		**Stand Elective**		**Stand Elective**		**Discipline Elective**
	PHYS1121 Physics 1A OR **PHYS1131** Higher Physics 1A		**MATH2089** Numerical Methods and Statistics		**Discipline Elective**		**Computing Elective**		**Computing Elective**
Term 1	**MATH1231** Mathematics 1B OR **MATH1241** Higher Mathematics 1B	Term 1	**MATH2018** Engineering Mathematics 2D OR **MATH2019** Engineering Mathematics 2E	Term 1	**SOLA3507** Solar Cells	Term 1	**ELEC4122** Strategic Leadership and Ethics	Term 1	**SOLA4952** Research Thesis B
	PHYS1221 Physics 1B OR **PHYS1231** Higher Physics 1B		**SOLA2540** Applied Photovoltaics		**COMP2511** Object-Oriented Design and Programming		**Stand Elective**		**Discipline Elective**
	DESN1000 Introduction to Engineering Design and Innovation		**SOLA2060** Introduction to Electronic Devices						**Computing Elective**
Term 2	**COMP1511** Programming Fundamentals	Term 2	**COMP1521** Computer Systems Fundamentals	Term 2	**COMP3900** Computer Science Project	Term 2	**SOLA4012** Photovoltaic Systems Design	Term 2	**SOLA4953** Research Thesis C
	SOLA1070 Sustainable Energy		**SOLA2051** Project in Photovoltaics and Renewable Energy		**SOLA3010** Low Energy Buildings and Photovoltaics		**SOLA5057** Energy Efficiency		**Computing Elective**
					SOLA3020 Photovoltaic Technology and Manufacturing		**COMP4920** Professional Issues and Ethics in Information Technology		**Computing Elective**

NOTES

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

Information is correct as of October 2024 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