

No Major	2
Renewable Energy Major	4
Smart Technologies Major	6



No Major

	Year 1									
S1						-				
S2	MATHS 1011 Mathematics IA		PHYSICS 1510 Physics 1E: Mechanics & Thermodynamics		ELEC ENG 1102 Digital Electronics		ENG 1002 Programming (Matlab and C)			
	Year 2									
S1	MATHS 1012 Mathematics IB		COMP SCI 1102 Object Oriented Programming		^ENG 1001 Introduction to Engineering		ELEC ENG 1100 Analog Electronics			
S2	MATHS 2107 Statistics & Numerical Methods II		ELEC ENG 2103 Design & Innovation		ELEC ENG 2104 Digital Signal Processing		CORPFIN 1002 Business Finance I			
				Year	3					
S1	MATHS 2106 Differential Equations for Engineers II		ELEC ENG 2101 Electronic Circuits		ELEC ENG 2100 Digital Systems		ECON 1009 International Financial Institutions & Markets I			
S2	ELEC ENG 2106 Vector Calculus & Electromagnetics		ELEC ENG 3104 Electric Drive Systems		ELEC ENG 3110 Electric Power Systems		ECON 1012 Principles of Economics			
				Interns	ship					
	All Engineering students commence	ing from	a 2019 are required to complete a minimu	um of 8	3 weeks of <u>internship</u> during the course of 1	their s	tudies – see note below elective table.			
				Year	4					
S1	ELEC ENG 3101 Control		ELEC ENG 3103 Engineering Electromagnetics		ELEC ENG 2102 Electric Energy Conversion		ACCTING 1002 Introductory Accounting			
S2	ENG 3004 Systems Engineering & Industry Practice		ELEC ENG 4105 Real-Time and Embedded Systems		ELEC ENG 4106 Radio Frequency Systems		CORPFIN 2502 Business Valuation			
		-	-	Year	5					
S1	ENG 3005 Research Method & Project Management		E&E Engineering Elective (see elective table)		CORPFIN 2504 Options, Futures & Risk Management		ECON 2508 Financial Economics II			
S2	ENG 4001A Research Project Part A		ELEC ENG 4100 Business Management Systems		CORPFIN 2501 Financial Institutions Management		MATHS 3012 Financial Modelling: Tools & Techniques III			
	Year 6									
S1	ENG 4001B Research Project Part B		CORPFIN 3501 Portfolio Theory & Management		ECON 3511 Money, Banking & Financial Markets III		Level III Finance and Banking Elective			
Cor	e Course Elective (see table)	Double	Degree Courses							

<sup>^</sup> Unless exempted, International students are required to take ENG 1011 Introduction to Engineering - EAL in lieu of ENG 1001 Introduction to Engineering. Last published 26 November 2021



### **Electives** Table

CHOOSE FROM THE FOLLOWING ELECTRICAL & ELECTRONIC (E&E) ENGINEERING ELECTIVES									
	COMP SCI 2103	Algorithm Design & Data Structures		COMP SCI 2103	Algorithm Design & Data Structures				
	COMP SCI 3001	Computer Networks & Applications	52	COMP SCI 3006	Software Engineering & Project				
	ELEC ENG 3088	Computer Architecture		ELEC ENG 3108	Telecommunications Principles				
	ELEC ENG 4058	Power Quality & Condition Monitoring		ELEC ENG 3113	Principles of Medical Imaging				
<b>S1</b>	ELEC ENG 4063	Communications		ELEC ENG 4061	Image Processing				
51	ELEC ENG 4069	Radar Principles & Systems		ELEC ENG 4067	Antennas & Propagation				
	ELEC ENG 4109	Digital Microelectronics		ELEC ENG 4087	Electricity Market and Power System Operations				
	ELEC ENG 4112	Signal Processing Applications		ELEC ENG 4107	Autonomous Systems				
				ELEC ENG 4111	Distributed Generation Technologies				
				ELEC ENG 4115	Biomedical Instrumentation				
		CHOOSE FROM THE FOLLOWIN	g fin <i>i</i>	ANCE & BANKING E	LECTIVES				
	ECON 3506	International Trade III		ECON 3510	International Finance III				
<b>S1</b>	CORPFIN 3507	507 Topics in Corporate Finance		CORPFIN 3505	Corporate Regulations & Ethics in Finance				
51			S2	CORPFIN 3506	Takeovers, Corporate Restructuring &				
					Governance				

#### NOTES

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Renewable Energy Major

								01	-		
	Year 1										
S1			-		-		_				
S2	MATHS 1011			PHYSICS 1510		ELEC ENG 1102		ENG 1002			
52	Mathematics	5 IA		Physics 1E: Mechanics & Thermodynamics		Digital Electronics		Programming (Matlab and C)			
	Year 2										
S1	MATHS 1012			COMP SCI 1102		^ENG 1001		ELEC ENG 1100			
	Mathematics			Object Oriented Programming		Introduction to Engineering		Analog Electronics			
S2	MATHS 2107			ELEC ENG 2103		ELEC ENG 2104		CORPFIN 1002			
	Statistics & N	Iumerical Methods II		Design & Innovation		Digital Signal Processing		Business Finance I			
	1			l	Year		-				
	MATHS 2106			ELEC ENG 2101		ELEC ENG 2100		ECON 1009			
S1	Differential E	equations for Engineers II		Electronic Circuits		Digital Systems		International Financial Institutions & Markets I			
	ELEC ENG 21	06		ELEC ENG 3104		ELEC ENG 3110		ECON 1012			
S2		lus & Electromagnetics		Electric Drive Systems		Electric Power Systems		Principles of Economics			
			-	· · · ·	Intern	· · ·	-				
	All Engine	ering students commencin	g from			3 weeks of <u>internship</u> during the course of	thair s	tudies – see note below elective table			
	All Eligine		5 11011		Year						
		04			rear						
S1	ELEC ENG 31 Control	01		ELEC ENG 3103 Engineering Electromagnetics		ELEC ENG 2102 Electric Energy Conversion		ACCTING 1002 Introductory Accounting			
	ENG 3004			CHEM ENG 4048		ELEC ENG 4111		CORPFIN 2502			
S2		eering & Industry Practice		Biofuels, Biomass and Wastes		Distributed Generation Technologies		Business Valuation			
	oyotonio <u>Engin</u>		-	biolocis, biolitass and wastes	Year		-				
	ENG 3005			MECH ENG 4064	Tear	CORPFIN 2504		ECON 2508			
S1		hod & Project Management		Renewable Power Technologies		Options, Futures & Risk Management		Financial Economics II			
	ENG 4001A			ELEC ENG 4100		CORPFIN 2501		MATHS 3012			
S2	Research Pro	liect Part Δ		Business Management Systems		Financial Institutions Management		Financial Modelling: Tools &			
52	Research inc			Busiliess Multagement Systems		inductions wandgement		Techniques III			
	n			• 	Year	6					
	ENG 4001B			CORPFIN 3501	-	ECON 3511	-	Level III Finance and Banking Elective			
S1	Research Pro	oject Part B		Portfolio Theory & Management		Money, Banking & Financial Markets III					
		-		, ,							
Cor	e Course	Major course	Dou	uble Degree Courses							

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Smart Technologies Major

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	Year 2										
S1	MATHS 1012 Mathematics			COMP SCI 1102 Object Oriented Programming		^ENG 1001 Introduction to Engineering		ELEC ENG 1100 Analog Electronics			
S2	MATHS 2107 Statistics & N	umerical Methods II		ELEC ENG 2103 Design & Innovation		ELEC ENG 2104 Digital Signal Processing		CORPFIN 1002 Business Finance I			
					Year	· 3					
S1	MATHS 2106 Differential E	quations for Engineers II		ELEC ENG 2101 Electronic Circuits		ELEC ENG 2100 Digital Systems		ECON 1009 International Financial Institutions & Markets I			
S2	ELEC ENG 21 Vector Calcul	06 us & Electromagnetics		COMP SCI 2103 Algorithm Design & Data Structures		MECH ENG 3032 Micro-Controller Programming		ECON 1012 Principles of Economics			
			-		Intern	ship					
	All Engine	ering students commencing	g from	2019 are required to complete a minimu	um of a	8 weeks of <u>internship</u> during the course of t	heir s	tudies – see note below elective table.			
					Year	4					
S1	ELEC ENG 31 Control	01		ELEC ENG 3103 Engineering Electromagnetics		ELEC ENG 2102 Electric Energy Conversion		ACCTING 1002 Introductory Accounting			
S2	ENG 3004 Systems Engin	eering & Industry Practice		ELEC ENG 3108 Telecommunications Principles		ELEC ENG 4107 Autonomous Systems		CORPFIN 2502 Business Valuation			
	-				Year	5	- -				
S1	ENG 3005 Research Meth	nod & Project Management		COMP SCI 3001 Computer Networks & Applications		CORPFIN 2504 Options, Futures & Risk Management		ECON 2508 Financial Economics II			
S2	ENG 4001A Research Pro	ject Part A		ELEC ENG 4100 Business Management Systems		CORPFIN 2501 Financial Institutions Management		MATHS 3012 Financial Modelling: Tools & Techniques III			
			_		Year	6			_		
S1	ENG 4001B Research Pro	ject Part B		CORPFIN 3501 Portfolio Theory & Management		ECON 3511 Money, Banking & Financial Markets III		Level III Finance and Banking Elective			
Cor	e Course	Major course	Dou	ible Degree Courses							

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