

No Major	2
Communication Systems Major	
Computer Engineering Major	
Cybersecurity Major	
Defence Systems Major	
Medical Technologies Major	
Renewable Energy Major	
Smart Technologies Major	
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No Major

	110 1/14/01										
			Year	1							
S1	ELEC ENG 1100 Analog Electronics	^ENG 1001 Introduction to Engineering		MATHS 1011 Mathematics IA		PHYSICS 1100 Physics IA					
S2	ELEC ENG 1102 Digital Electronics	ENG 1002 Programming (Matlab and C)		MATHS 1012 Mathematics IB		PHYSICS 1200 Physics IB					
			Year	2	_		-				
S1	ELEC ENG 2100 Digital Systems	ELEC ENG 2101 Electronic Circuits		ELEC ENG 2102 Electric Energy Conversion		MATHS 2106 Differential Equations for Engineers II					
S2	ELEC ENG 2103 Design & Innovation	ELEC ENG 2104 Digital Signal Processing		MATHS 2107 Statistics & Numerical Methods II		COMP SCI 1102 Object Oriented Programming					
	Year 3										
S1	ENG 3004 Systems Engineering & Industry Practice	ELEC ENG 3101 Control		ELEC ENG 3103 Engineering Electromagnetics		PHYSICS 2510 Physics IIA					
S2	ELEC ENG 2106 Vector Calculus & Electromagnetics	PHYSICS 2520 Physics IIB		PHYSICS 2532 Classical Physics II		PHYSICS 2534 Electromagnetism					
			Intern	ship							
	All Engineering students commencing fro	m 2019 are required to complete a m	ninimum of 8	3 weeks of <u>internship</u> during the course	e of their s	tudies – see note below elective table.					
			Year	4							
S1	ENG 3005 Research Method & Project Management	E&E Engineering Elective (see elective table)		PHYSICS 3542 Physics III							
S2	ELEC ENG 3104 Electric Drive Systems	ELEC ENG 3110 Electric Power Systems		ELEC ENG 4105 Real-Time and Embedded Systems		ELEC ENG 4106 Radio Frequency Systems					
			Year	5							
S1	ENG 4001A Research Project Part A	E&E Engineering Elective (see elective table)		Level III PHYSICS Elective		Level III PHYSICS Elective					
S2	ENG 4001B Research Project Part B	ELEC ENG 4100 Business Management Systems		E&E Engineering Elective (see elective table)		PHYSICS 3002 Experimental Physics III					
Cor	e Course Flective (see table) Doub	e Degree Courses									

[^] Unless exempted, International students are required to take ENG 1011 Introduction to Engineering - EAL in lieu of ENG 1001 Introduction to Engineering.



Electives Table

		CHOOSE FROM THE FOLLOWING ELECTRICA	L & ELE	ECTRONIC (E&E) EN	IGINEERING ELECTIVES
	COMP SCI 2103	Algorithm Design & Data Structures		COMP SCI 2103	Algorithm Design & Data Structures
	COMP SCI 3001	Computer Networks & Applications		COMP SCI 3006	Software Engineering & Project
	ELEC ENG 3088	Power Quality & Condition Monitoring Communications Radar Principles & Systems		ELEC ENG 3108	Telecommunications Principles
	ELEC ENG 4058			ELEC ENG 3113	Principles of Medical Imaging
S1	ELEC ENG 4063			ELEC ENG 4061	Image Processing
31	ELEC ENG 4069			ELEC ENG 4067	Antennas & Propagation
	ELEC ENG 4109			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

NOTES

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Communication Systems Major

							,				
			Year	1							
S1	ELEC ENG 1100 Analog Electronics	^ENG 1001 Introduction to Engineering		MATHS 1011 Mathematics IA		PHYSICS 1100 Physics IA					
S2	ELEC ENG 1102 Digital Electronics	ENG 1002 Programming (Matlab and C)		MATHS 1012 Mathematics IB		PHYSICS 1200 Physics IB					
			Year	2							
S1	ELEC ENG 2100 Digital Systems	ELEC ENG 2101 Electronic Circuits		ELEC ENG 2102 Electric Energy Conversion		MATHS 2106 Differential Equations for Engineers II					
S2	ELEC ENG 2103 Design & Innovation	ELEC ENG 2104 Digital Signal Processing		MATHS 2107 Statistics & Numerical Methods II		COMP SCI 1102 Object Oriented Programming					
	Year 3										
S1	ENG 3004 Systems Engineering & Industry Practice	ELEC ENG 3101 Control		ELEC ENG 3103 Engineering Electromagnetics		PHYSICS 2510 Physics IIA					
S2	ELEC ENG 2106 Vector Calculus & Electromagnetics	PHYSICS 2520 Physics IIB		PHYSICS 2532 Classical Physics II		PHYSICS 2534 Electromagnetism					
			Interns	ship							
	All Engineering students commencing fr	rom 2019 are required to complete a minim	um of 8	B weeks of <u>internship</u> during the course	of their s	tudies – see note below elective table.					
			Year	4			_				
S1	ENG 3005 Research Method & Project Management	Level III PHYSICS Elective		PHYSICS 3542 Physics III							
S2	COMP SCI 2103 Algorithm Design & Data Structures	ELEC ENG 3108 Telecommunications Principles		ELEC ENG 4106 Radio Frequency Systems		Level III PHYSICS Elective					
			Year	5							
S1	ENG 4001A Research Project Part A	COMP SCI 3001 Computer Networks & Applications		ELEC ENG 4063 Communications		E&E Engineering Elective (see elective table)					
S2	ENG 4001B Research Project Part B	ELEC ENG 4054 Telecommunication Systems		ELEC ENG 4100 Business Management Systems		PHYSICS 3002 Experimental Physics III					
Cor	e Course Major course	Flective (see table) Double Degree (Ourses								

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Electives Table

		CHOOSE FROM THE FOLLOWING ELECTRICAL & ELECTRONIC (E&E) ENGINEERING ELECTIVES									
		COMP SCI 3007	Artificial Intelligence		ELEC ENG 4061	Image Processing					
		ELEC ENG 3088	Computer Architecture		ELEC ENG 4067	Antennas & Propagation					
١.	S1	ELEC ENG 4069	Radar Principles & Systems		ELEC ENG 4105	Real-Time & Embedded Systems					
1	,1	ELEC ENG 4109	Digital Microelectronics	32							
		ELEC ENG 4112	Signal Processing Applications								

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Computer Engineering Major

	Computer Engineering Wajer										
				Year	1						
S 1	ELEC ENG 1100 Analog Electronics		^ENG 1001 Introduction to Engineering		MATHS 1011 Mathematics IA		PHYSICS 1100 Physics IA				
S 2	ELEC ENG 1102 Digital Electronics		ENG 1002 Programming (Matlab and C)		MATHS 1012 Mathematics IB		PHYSICS 1200 Physics IB				
	Year 2										
S 1	ELEC ENG 2100 Digital Systems		ELEC ENG 2101 Electronic Circuits		ELEC ENG 2102 Electric Energy Conversion		MATHS 2106 Differential Equations for Engineers II				
S 2	ELEC ENG 2103 Design & Innovation		ELEC ENG 2104 Digital Signal Processing		MATHS 2107 Statistics & Numerical Methods II		COMP SCI 1102 Object Oriented Programming				
	Year 3										
S 1	ENG 3004 Systems Engineering & Industry Practice		ELEC ENG 3101 Control		ELEC ENG 3103 Engineering Electromagnetics		PHYSICS 2510 Physics IIA				
S 2	ELEC ENG 2106 Vector Calculus & Electromagnetics		PHYSICS 2520 Physics IIB		PHYSICS 2532 Classical Physics II		PHYSICS 2534 Electromagnetism				
			ln	iterns	hip						
	All Engineering students commencing f	rom	2019 are required to complete a minimun	n of 8	weeks of <u>internship</u> during the course of th	eir st	tudies – see note below elective table.				
				Year	4						
S 1	ELEC ENG 4109 Digital Microelectronics		Level III PHYSICS Elective		PHYSICS 3542 Physics III						
S 2	COMP SCI 2103 Algorithm Design & Data Structures		ELEC ENG 4105 Real-Time & Embedded Systems		ENG 3005 Research Method & Project Management		Level III PHYSICS Elective				
				Year	5						
S 1	ENG 4001A Research Project Part A		COMP SCI 3001 Computer Networks & Applications		ELEC ENG 3088 Computer Architecture		E&E Engineering Elective (see elective table)				
S 2	ENG 4001B Research Project Part B		ELEC ENG 4100 Business Management Systems		COMP SCI 3004 Operating Systems		PHYSICS 3002 Experimental Physics III				
Cor	re Course Major course	Eloc	tive (see table) Double Degree Co	urcoc							

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Electives Table

	CHOOSE FROM THE FOLLOWING ELECTRICAL & ELECTRONIC (E&E) ENGINEERING ELECTIVES										
	COMP SCI 3007	Artificial Intelligence		COMP SCI 3006	Software Engineering & Project						
	COMP SCI 3308	Cybersecurity Fundamentals		COMP SCI 3307	Secure Programming						
C1	ELEC ENG 4112	Signal Processing Applications	S2	ELEC ENG 3104	Electric Drive Systems						
31			32	ELEC ENG 3108	Telecommunications Principles						
				ELEC ENG 4061	Image Processing						
				ELEC ENG 4106	Radio Frequency Systems						

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Cybersecurity Major

	cybersecurity wager										
				Year	1						
S 1	ELEC ENG 1100 Analog Electronics		^ENG 1001 Introduction to Engineering		MATHS 1011 Mathematics IA		PHYSICS 1100 Physics IA				
S 2	ELEC ENG 1102 Digital Electronics		ENG 1002 Programming (Matlab and C)		MATHS 1012 Mathematics IB		PHYSICS 1200 Physics IB				
	Year 2										
S 1	ELEC ENG 2100 Digital Systems		ELEC ENG 2101 Electronic Circuits		ELEC ENG 2102 Electric Energy Conversion		MATHS 2106 Differential Equations for Engineers II				
S 2	ELEC ENG 2103 Design & Innovation		ELEC ENG 2104 Digital Signal Processing		MATHS 2107 Statistics & Numerical Methods II		COMP SCI 1102 Object Oriented Programming				
	Year 3										
S 1	ENG 3004 Systems Engineering & Industry Practice		ELEC ENG 3101 Control		ELEC ENG 3103 Engineering Electromagnetics		PHYSICS 2510 Physics IIA				
S 2	ELEC ENG 2106 Vector Calculus & Electromagnetics		PHYSICS 2520 Physics IIB		PHYSICS 2532 Classical Physics II		PHYSICS 2534 Electromagnetism				
				Interns	ship						
	All Engineering students commencing fr	rom	2019 are required to complete a minimu	ım of 8	s weeks of <u>internship</u> during the course of th	eir st	cudies – see note below elective table.				
				Year	4						
S 1	COMP SCI 2103 Algorithm Design & Data Structures		Level III PHYSICS Elective		PHYSICS 3542 Physics III						
S 2	COMP SCI 2000 Computer Systems		COMP SCI 2201 Algorithm & Data Structure Analysis		ENG 3005 Research Method & Project Management		PHYSICS 3002 Experimental Physics III				
				Year	5						
S 1	ENG 4001A Research Project Part A		COMP SCI 3308 Cybersecurity Fundamentals		E&E Engineering Elective (see elective table)		Level III PHYSICS Elective				
S 2	ENG 4001B Research Project Part B		COMP SCI 3307 Secure Programming		COMP SCI 3004 Operating Systems		ELEC ENG 4100 Business Management Systems				
Car	re Course Major course	Eloc	tive (see table) Double Degree C	ourco							

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Electives Table

	CHOOSE FROM THE FOLLOWING ELECTRICAL & ELECTRONIC (E&E) ENGINEERING ELECTIVES										
	COMP SCI 3001	Computer Networks & Applications		COMP SCI 3006	Software Engineering & Project						
	ELEC ENG 4063	Communications		ELEC ENG 3104	Electric Drive Systems						
C1	ELEC ENG 4109	C ENG 4109 Digital Microelectronics		ELEC ENG 3108	Telecommunications Principles						
31			S2	ELEC ENG 4061	Image Processing						
				ELEC ENG 4105	Real-Time & Embedded Systems						
				ELEC ENG 4106	Radio Frequency Systems						

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Defence Systems Major

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			Year	r 1						
S1	ELEC ENG 1100 Analog Electronics		^ENG 1001 Introduction to Engineering	i I i	MATHS 1011 Mathematics IA		PHYSICS 1100 Physics IA			
S2	ELEC ENG 1102 Digital Electronics		ENG 1002 Programming (Matlab and C)	ш	MATHS 1012 Mathematics IB		PHYSICS 1200 Physics IB			
			Year	r 2	2					
S1	ELEC ENG 2100 Digital Systems		ELEC ENG 2101 Electronic Circuits		ELEC ENG 2102 Electric Energy Conversion		MATHS 2106 Differential Equations for Engineers II			
S2	ELEC ENG 2103 Design & Innovation		ELEC ENG 2104 Digital Signal Processing	11	MATHS 2107 Statistics & Numerical Methods II		COMP SCI 1102 Object Oriented Programming			
			Year	r 3	3					
S1	ENG 3004 Systems Engineering & Industry Practice		ELEC ENG 3101 Control	11	ELEC ENG 3103 Engineering Electromagnetics		PHYSICS 2510 Physics IIA			
S2	ELEC ENG 2106 Vector Calculus & Electromagnetics		PHYSICS 2520 Physics IIB		PHYSICS 2532 Classical Physics II		PHYSICS 2534 Electromagnetism			
			Intern	ısh	nip					
	All Engineering students commencing f	from	a 2019 are required to complete a minimum of			eir s	tudies – see note below elective table.			
			Year	_						
S1	POLIS 1104 Introduction to Comparative Politics		ENG 3005 Research Method & Project Management		PHYSICS 3542 Physics III					
S2	ELEC ENG 4106 Radio Frequency Systems		ELEC ENG 4107 Autonomous Systems		ENG 3305 Human Factors for Decision Making		PHYSICS 3002 Experimental Physics III			
			Year	r 5	5					
S1	ENG 4001A Research Project Part A		ENG 4010 Defence Leadership		Level III PHYSICS Elective		Level III PHYSICS Elective			
S2	ENG 4001B Research Project Part B		ENG 4020 Complex Systems Engineering		E&E Engineering Elective (see elective table)		ELEC ENG 4100 Business Management Systems			
Cor	e Course Major course	Eloc	tive (see table) Double Degree Courses							

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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			Telecommunications Principles					
C1	ELEC ENG 4063	Communications Radar Principles & Systems		ELEC ENG 4061	Image Processing					
31	ELEC ENG 4069			ELEC ENG 4067	Antennas and Propagation					
	ELEC ENG 4109	Digital Microelectronics			Distributed Generation Technologies					
	ELEC ENG 4112	Signal Processing Applications								

NOTES

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Medical Technologies Major

	Woulder Teeling of Wager									
			Year	1						
S1	ELEC ENG 1100 Analog Electronics	^ENG 1001 Introduction to Engineering		MATHS 1011 Mathematics IA		PHYSICS 1100 Physics IA				
S2	ELEC ENG 1102 Digital Electronics	ENG 1002 Programming (Matlab and C)		MATHS 1012 Mathematics IB		PHYSICS 1200 Physics IB				
	Year 2									
S1	ELEC ENG 2100 Digital Systems	ELEC ENG 2101 Electronic Circuits		ELEC ENG 2102 Electric Energy Conversion		MATHS 2106 Differential Equations for Engineers II				
S2	ELEC ENG 2103 Design & Innovation	Digital Signal Processing		MATHS 2107 Statistics & Numerical Methods II		COMP SCI 1102 Object Oriented Programming				
			Year	3						
S1	ANAT SC 1102 Human Anatomy and Physiology IA	ELEC ENG 3101 Control		ELEC ENG 3103 Engineering Electromagnetics		PHYSICS 2510 Physics IIA				
S2	ELEC ENG 2106 Vector Calculus & Electromagnetics	PHYSICS 2520 Physics IIB		PHYSICS 2532 Classical Physics II		PHYSICS 2534 Electromagnetism				
			Intern	ship						
	All Engineering students commencing fro	om 2019 are required to complete a minim	num of 8	B weeks of <u>internship</u> during the course of t	heir s	tudies – see note below elective table.				
			Year	4						
S1	PHYSIOL 2510 Physiology IIA: Heart, Lung & [Neuromuscular Systems	ENG 3101 Introduction to Medical Technologies		PHYSICS 3542 Physics III						
S2	ELEC ENG 3113 Principles of Medical Imaging	ELEC ENG 4115 Biomedical Instrumentation		ENG 3004 Systems Engineering & Industry Practice		ENG 3005 Research Method & Project Management				
			Year	5						
S1	ENG 4001A Research Project Part A	E&E Engineering Elective (see elective table)		Level III PHYSICS Elective		Level III PHYSICS Elective				
S2	ENG 4001B Research Project Part B	MECH ENG 4101 Biomechanical Engineering		ELEC ENG 4100 Business Management Systems		PHYSICS 3002 Experimental Physics III				
Cor	o Course Major course	lactive (see table) Double Degree	Cource							

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Electives Table

	CHOOSE FROM THE FOLLOWING ELECTRICAL & ELECTRONIC (E&E) ENGINEERING ELECTIVES									
	ANAT SC 2006	Foundations of Human Neuroanatomy		COMP SCI 2103	Algorithm Design & Data Structures					
	ANAT SC 2109	Biology and Development of Human Tissues		ELEC ENG 3108	Telecommunications Principles					
S1	COMP SCI 2103	Algorithm Design & Data Structures	S2	ELEC ENG 4061	Image Processing					
31	ELEC ENG 4063	Communications	32	ELEC ENG 4067	Antennas and Propagation					
	ELEC ENG 4109	Digital Microelectronics								
	ELEC ENG 4112	Signal Processing Applications								

NOTES

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Renewable Energy Major

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			Year	1						
S1	ELEC ENG 1100 Analog Electronics	^ENG 1001 Introduction to Engineering		MATHS 1011 Mathematics IA		PHYSICS 1100 Physics IA				
S2	ELEC ENG 1102 Digital Electronics	ENG 1002 Programming (Matlab and C)		MATHS 1012 Mathematics IB		PHYSICS 1200 Physics IB				
			Year	2						
S1	ELEC ENG 2100 Digital Systems	ELEC ENG 2101 Electronic Circuits		ELEC ENG 2102 Electric Energy Conversion		MATHS 2106 Differential Equations for Engineers II				
S2	ELEC ENG 2103 Design & Innovation	ELEC ENG 2104 Digital Signal Processing		MATHS 2107 Statistics & Numerical Methods II		COMP SCI 1102 Object Oriented Programming				
	Year 3									
S1	ENG 3004 Systems Engineering & Industry Practice	ELEC ENG 3101 Control		ELEC ENG 3103 Engineering Electromagnetics		PHYSICS 2510 Physics IIA				
S2	ELEC ENG 2106 Vector Calculus & Electromagnetics	PHYSICS 2520 Physics IIB		PHYSICS 2532 Classical Physics II		PHYSICS 2534 Electromagnetism				
			Interns	hip						
	All Engineering students commencing f	rom 2019 are required to complete a m		weeks of <u>internship</u> during the course o	of their s	tudies – see note below elective table.				
	<u>, </u>		Year	4						
S1	MECH ENG 4064 Renewable Power Technologies	ENG 3005 Research Method & Project Management		PHYSICS 3542 Physics III						
S2	ELEC ENG 3104 Electric Drive Systems	ELEC ENG 3110 Electric Power Systems		ELEC ENG 4111 Distributed Generation Technologies		CHEM ENG 4048 Biofuels, Biomass and Wastes				
			Year	5						
S1	ENG 4001A Research Project Part A	E&E Engineering Elective (see elective table)		Level III PHYSICS Elective		Level III PHYSICS Elective				
S2	ENG 4001B Research Project Part B	ELEC ENG 4100 Business Management Systems		E&E Engineering Elective (see elective table)		PHYSICS 3002 Experimental Physics III				
Cor	e Course Major course	Flective (see table) Double Dec	ree Courses							

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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				
١,	COMP SCI 3001	SCI 3001 Computer Networks & Applications		ELEC ENG 3108	Telecommunications Principles				
S1	ELEC ENG 4058	Power Quality & Condition Monitoring	32		Electricity Market and Power System Operations				
	ELEC ENG 4109	Digital Microelectronics		MECH ENG 4145	Sustainable Thermal Technologies (not offered 2022)				

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Smart Technologies Major

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			Ye	ear	1			
S 1	ELEC ENG 1100 Analog Electronics		^ENG 1001 Introduction to Engineering		MATHS 1011 Mathematics IA		PHYSICS 1100 Physics IA	
S 2	ELEC ENG 1102 Digital Electronics		ENG 1002 Programming (Matlab and C)		MATHS 1012 Mathematics IB		PHYSICS 1200 Physics IB	
			Ye	ear :	2			
S 1	ELEC ENG 2100 Digital Systems		ELEC ENG 2101 Electronic Circuits		ELEC ENG 2102 Electric Energy Conversion		MATHS 2106 Differential Equations for Engineers II	
S 2	ELEC ENG 2103 Design & Innovation		ELEC ENG 2104 Digital Signal Processing		MATHS 2107 Statistics & Numerical Methods II		COMP SCI 1102 Object Oriented Programming	
			Ye	ear :	3			
S 1	ENG 3004 Systems Engineering & Industry Practice		ELEC ENG 3101 Control		ELEC ENG 3103 Engineering Electromagnetics		PHYSICS 2510 Physics IIA	
S 2	ELEC ENG 2106 Vector Calculus & Electromagnetics		PHYSICS 2520 Physics IIB		PHYSICS 2532 Classical Physics II		PHYSICS 2534 Electromagnetism	
			Inte	rns	hip			
	All Engineering students commencing	from	2019 are required to complete a minimum o	of 8	weeks of internship during the course of the	neir st	cudies – see note below elective table.	
			Ye	ear 4	4			
S 1	ENG 3005 Research Method & Project Management		Level III PHYSICS Elective		PHYSICS 3542 Physics III			
S 2	COMP SCI 2103 Algorithm Design & Data Structures		ELEC ENG 4107 Autonomous Systems		MECH ENG 3032 Micro-Controller Programming		E&E Engineering Elective (see elective table)	
			Ye	ear!	5			
S 1	ENG 4001A Research Project Part A		COMP SCI 3001 Computer Networks & Applications		E&E Engineering Elective (see elective table)		Level III PHYSICS Elective	
S 2	ENG 4001B Research Project Part B		ELEC ENG 3108 Telecommunications Principles		ELEC ENG 4100 Business Management Systems		PHYSICS 3002 Experimental Physics III	
Cor	e Course Major course	Elec	tive (see table) Double Degree Cour	ses				

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	CHOOSE FROM THE FOLLOWING ELECTRICAL & ELECTRONIC (E&E) ENGINEERING ELECTIVES									
	ELEC ENG 3088	Computer Architecture		COMP SCI 3006	Software Engineering & Project					
	ELEC ENG 4063	Communications		ELEC ENG 3108	Telecommunications Principles					
S1	ELEC ENG 4069	Radar Principles & Systems	S2	ELEC ENG 4061	Image Processing					
	ELEC ENG 4109	Digital Microelectronics		ELEC ENG 4067	Antennas and Propagation					
	ELEC ENG 4112	Signal Processing Applications								

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