

RECOMMENDED STUDY PLAN

2021-2022

DEGREE Bachelor of Engineering (Honours) MAJOR Electrical and Electronic Engineering (EEL)

NAME _____ MINOR Physics (PHY)

To assist you with subject information, we recommend you consult with your CSE Course/Major Advisor and refer to [Subject Search](#). If you would prefer a part-time study plan, please adjust the below planner, reviewing subject prerequisites to ensure you are on track for course completion.

	Study Period 1 - SP1	Study Period 2 - SP2
Year 1	Degree Core: <u>EG1000</u> Engineering 1	Degree Core: <u>EG1010</u> Process Engineering
	Degree Core: <u>EG1002</u> Computing and Sensors	Degree Core: <u>EG1011</u> Statics and Dynamics PREREQ: PH1005 OR (PHYSICS AND MATHS C)
	Degree Core: <u>MA1000</u> Mathematical Foundations PREREQ: MA1020 OR MATHS B OR MATHS C	Degree Core: <u>EG1012</u> Electric Circuits
	Degree Core: <u>PH1005</u> Advanced Stream Physics 1 PREREQ: MATHS B OR MA1020 OR MA1000 OR MA1008	Degree Core: <u>MA1003</u> Mathematical Techniques PREREQ: MA1000 OR MA1011 OR MA1009

	Study Period 1 - SP1	Study Period 2 - SP2
Year 2	Degree Core: <u>MA2000</u> Mathematics for Scientists and Engineers PREREQ: MA1003	Major Core: <u>CC2511</u> Embedded Systems Design PREREQ: EG1002 OR CP1300 OR CP1404
	Major Core: <u>CC2510</u> Digital Logic and Computing Methods PREREQ: EG1002 OR CP1401	Major Core: <u>EE2300</u> Electronics 1 PREREQ: EG1012
	Major Core: <u>EE2201</u> Circuit Theory PREREQ: EG1012 AND MA2000	Major Core: <u>EE3600</u> Automatic Control 1 PREREQ: EG1012 AND MA2000 OR ADMITTANCE INTO MASTER OF ENGINEERING (PROF)
	Major Core: <u>PH2019</u> Introduction to Electromagnetism Optics and Early Quantum PREREQ: (EG1012 OR PH1005) AND MA1003	Minor Core List 1:

	Study Period 1 - SP1	Study Period 2 - SP2
Year 3	Major Core: <u>EE3010</u> Digital Signal Processing PREREQ: 48CP	Major Core: <u>CC3501</u> Computing Interfacing and Control PREREQ: CC2511 OR ADMITTANCE INTO MASTER OF ENGINEERING (PROF)
	Major Core: <u>EE3300</u> Electronics 2 PREREQ: EE2300	Major Core: <u>EE3700</u> Communications Systems Principles PREREQ: EE2201
	Major Core: <u>EE3400</u> Power Engineering 1 PREREQ: EE2201 OR ADMITTANCE INTO MASTER OF ENGINEERING (PROF)	Major Core: <u>EE4600</u> Automatic Control 2 PREREQ: EE3600 OR ADMITTANCE INTO MASTER OF ENGINEERING (PROF)
	Minor Core: <u>PH2002</u> Classical Mechanics and Quantum Physics 1 PREREQ: MA1003 AND PH1005 AND (PH1006 OR PH1007 OR (EG1012 AND EG1011))	Minor Core List 1 or 2:

Year 4	Study Period 1 - SP1	Study Period 2 - SP2
	Degree Core: <u>EG4011</u> Thesis Part 1 of 2 PREREQ: 72CP	Degree Core: <u>EG4012</u> Thesis Part 2 of 2 PREREQ: EG4011
	Degree Core: <u>EG3000</u> Introduction to Systems Engineering and Project Management PREREQ: EG1000 AND EG1002 AND EG1010 AND EG1011 AND EG1012 AND MA1000 AND MA1003 AND (PH1005 OR EG1001) OR 36CP	Major Core: <u>EE4400</u> Power Engineering 2 PREREQ: EE3400 OR ADMITTANCE INTO MASTER OF ENGINEERING (PROF)
	Major Core: <u>EE4010</u> Analog Filters and Signals PREREQ: EE2201 OR ADMITTANCE INTO MASTER OF ENGINEERING (PROF)	Major Core: <u>EE4500</u> Electrical and Electronic Engineering Design PREREQ: EE3600 AND EE3300 AND EE3001 OR ADMITTANCE INTO MASTER OF ENGINEERING (PROF)
Minor Core List 1 or 2:	Major Core: <u>EG4013</u> Asset Management, Maintenance and Reliability PREREQ: (EG1000 AND EG1002 AND EG1010 AND EG1011 AND EG1012 AND MA1000 AND MA1003 AND (PH1005 OR EG1001)) OR 36CP	

Further Degree Options: Select 1 Subject from List 1 AND 2 subjects from List 1 OR List 2

Minor Core List 1:	
Study Period 1 – SP1	Study Period 2 – SP2
<u>PH3008</u> Statistical Mechanics and Transport PREREQ: PH2019 AND PH2002 AND MA2000	<u>PH2240</u> Atomic and Nuclear Physics – <i>TSV only</i> PREREQ: PH2002 AND MA1003

Minor Core List 2:	
Study Period 1 – SP1	Study Period 2 – SP2
<u>PH3019</u> Electromagnetic Phenomena – <i>TSV only</i> PREREQ: MA2000 AND PH2019	<u>PH3002</u> Quantum Physics 2 – <i>TSV only</i> PREREQ: MA2000 AND PH2002
<u>MA3211</u> Mathematical Modelling and Differential Equations – <i>TSV only</i> PREREQ: MA2000 AND (MA2210 OR MA2201)	<u>PH3006</u> Oceanography and Meteorology – <i>TSV only</i> PREREQ: MA2000 AND PH2019
	<u>MA2210</u> Linear Algebra PREREQ: MA1003