

## RECOMMENDED STUDY PLAN

2021-2022

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

NAME \_\_\_\_\_ MINOR Data Science (DSC)

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: <u>MA1580</u> Foundations of Data Science PREREQ: MA1000 OR MA1020 OR MA0020 OR Maths B

	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>SC2202</u> Quantitative Methods in Science PREREQ: SC1102 or MA1020 or MA1000 or Math B or Equivalent	Minor Core: <u>MA2405</u> Advanced Statistical Modelling PREREQ: MA1401 OR BZ2001 OR MA2401 OR SC2202 OR SC2209 AND MA1000

<b>Year 4</b>	<b>Study Period 1 - SP1</b>	<b>Study Period 2 - SP2</b>
	<b>Degree Core:</b> <u>EG4011</u> Thesis Part 1 of 2 PREREQ: 72CP	<b>Degree Core:</b> <u>EG4012</u> Thesis Part 2 of 2 PREREQ: EG4011
	<b>Degree Core:</b> <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	<b>Major Core:</b> <u>EE4400</u> Power Engineering 2 PREREQ: EE3400 OR ADMITTANCE INTO MASTER OF ENGINEERING (PROF)
	<b>Major Core:</b> <u>EE4010</u> Analog Filters and Signals PREREQ: EE2201 OR ADMITTANCE INTO MASTER OF ENGINEERING (PROF)	<b>Major Core:</b> <u>EE4500</u> Electrical and Electronic Engineering Design PREREQ: EE3600 AND EE3300 AND EE3001 OR ADMITTANCE INTO MASTER OF ENGINEERING (PROF)
	<b>Minor Core List 1:</b>	<b>Major Core:</b> <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:**

<b>Minor Core List 1:</b>	
<b>Study Period 1 – SP1</b>	<b>Study Period 2 – SP2</b>
<u>MA3831</u> Natural Language Processing, Web Scraping and Large Data Processing PREREQ: CP1404 AND MA3405	<u>MA3405</u> Statistical Data Mining for Big Data PREREQ: MA2405 OR MA2000 OR SC2202/SC2209
	<u>MA3832</u> Neural Network and Deep Learning PREREQ: MA3405 OR MA5405 OR CP1404