

RECOMMENDED STUDY PLAN

2021-2022

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

NAME _____ MINOR Software (SOF)

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 CP1300	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
	Major Core: <u>PH2019</u> Introduction to Electromagnetism Optics and Early Quantum PREREQ: (EG1012 OR PH1005) AND MA1003	Minor Core: <u>CP1404</u> Programming II PREREQ: CP1801 OR CP1401 OR CP1200 or EG1002 OR CP2200 OR SC1201 TRIMESTER 3 (Sept-Dec)

	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
	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	Major Core: <u>EE4600</u> Automatic Control 2 PREREQ: EE3600
	Minor Core List 1:	Minor Core: <u>CP2406</u> Programming III PREREQ: CP1404 OR CP1804 OR CP1300

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
	Major Core: <u>EE4010</u> Analog Filters and Signals PREREQ: EE2201	Major Core: <u>EE4500</u> Electrical and Electronic Engineering Design PREREQ: EE3600 AND EE3300 AND EE3001
Minor Core List 1:	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:

Minor Core List 1:	
Study Period 1 – SP1	Study Period 2 – SP2
<u>CP1402</u> Internet Fundamentals - <i>SP1 External, also SP2 Internal</i> TRIMESTER 1 (Feb-May)	<u>CP2412</u> Game Design and Technologies - <i>External</i> PREREQ: 6CP OF CP SUBJECTS
<u>CP2404</u> Database Modelling	<u>CP3404</u> Information Security PREREQ: (ADMISSION TO BACHELOR OF INFORMATION TECHNOLOGY OR BACHELOR OF BUSINESS PLUS CP2414) OR (ADMISSION TO BACHELOR OF ENGINEERING - BACHELOR OF INFORMATION TECHNOLOGY PLUS 18 CREDIT POINTS OF SUBJECTS INCLUDING CP1402)
<u>CP2410</u> Algorithms and Data Structures - <i>External</i> PREREQ: 6CP CP SUBJECTS	<u>CP3407</u> Advanced Software Engineering - <i>External</i> PREREQ: (CP1404 OR CP1804 AND 18 CREDIT POINTS OF CP SUBJECTS) OR (CP1404 OR CP1804 AND ADMITTANCE TO BACHELOR OF ENGINEERING (COURSE CODES 102809 OR 116209 OR 116309))
<u>CP2411</u> 3D Modelling and Animation - <i>External</i> PREREQ: 6CP CP SUBJECTS	
<u>CP3406</u> Mobile Computing PREREQ: (CP1404 OR CP1804 AND 18 CREDIT POINTS OF CP SUBJECTS) OR (CP1404 OR CP1804 AND ADMITTANCE TO BACHELOR OF ENGINEERING (COURSE CODES 102809 OR 116209)) OR (CP1404 OR CP1804 AND ADMITTANCE TO BENG BIT (COURSE CODES 112609 OR 116309 OR 103310 OR 112610)) OR (CP1404 OR CP1804 AND ADMITTANCE TO BENG BSC (COURSE CODES 102909 OR 116409 OR 102910))	