

The information provided is designed to provide helpful information on your study plan. Changes to subject information after this time may affect your study plan. Please refer to the enrolment resources for up to date information.

RECOMMENDED STUDY PLAN

2021

DEGREE _	Bachelor of Engineering (Hono	ours) – Bachelor of Information Technology
NAME		MAJOR Electrical and Electronic Engineering (EEL)

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.

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

Year 2	Study Period 1 - SP1	Study Period 2 - SP2
	Degree Core: MA2000 Mathematics for Scientists and Engineers PREREQ: MA1003	Degree Core: CP1403 Design Thinking
	Degree Core: CP1404 Programming II - External PREREQ: CP1801 OR CP1401 OR CP1200 OR EG1002 OR CP2200 OR SC1201	Degree Core: CP2406 Programming III PREREQ: CP1404 OR CP1804 OR CP1300
	Major Core: EE2201 Circuit Theory PREREQ: EG1012 AND MA2000	Major Core: CC2511 Embedded Systems Design PREREQ: EG1002 OR CP1300 OR CP1404
	Major Core: CC2510 Digital Logic and Computing Methods PREREQ: EG1002 OR CP1300	Major Core: EE2300 Electronics 1 PREREQ: EG1012

	Study Period 1 - SP1	Study Period 2 - SP2
	Degree Core: <u>CP1402</u> Internet Fundamentals – External	Major Core: EE3600 Automatic Control 1 PREREQ: EG1012 AND MA2000
Year 3	Degree Core: CP2404 Database Modelling	Major Core: EE3700 Communications Systems Principles PREREQ: EE2201
×	Major Core: PH2019 Introduction to Electromagnetism Optics and Early Quantum PREREQ: (EG1012 OR PH1005) AND MA1003	Major Core: CC3501 Computing Interfacing and Control PREREQ: CC2511
	Major Core: <u>EE3010</u> Digital Signal Processing PREREQ: 48CP	<u>List Options</u> : see tables below for details

	Study Period 1 - SP1	Study Period 2 - SP2
4	Degree Core: EG3000 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	Degree Core: CP3407 Advanced Software Engineering PREREQ: CP1404 OR CP1804 AND 18CP OF SUBJECTS
Year	Major Core: EE3300 Electronics 2 PREREQ: EE2300	Major Core: EE4600 Automatic Control 2 PREREQ: EE3600
	Major Core: <u>EE3400</u> Power Engineering 1 PREREQ: EE2201	<u>List Options</u> : see tables below for details
	<u>List Options</u> : see tables below for details	<u>List Options</u> : see tables below for details

	Study Period 1 - SP1	Study Period 2 - SP2
	Degree Core: EG4011 Thesis Part 1 of 2 PREREQ: 72CP	Degree Core: EG4012 Thesis Part 2 of 2 PREREQ: EG4011
7.5	Major Core: EE4010 Analog Filters and Signals PREREQ: EE2201	Major Core: EE4400 Power Engineering 2 PREREQ: EE3400
Year	<u>List Options</u> : see tables below for details	Major Core: EE4500 Electrical and Electronic Engineering Design PREREQ: EE3600 AND EE3300 AND EE3001
	<u>List Options</u> : see tables below for details	Major Core: EG4013 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 Select 3 subjects from List 2 AND Select 2 subjects from List 3*

<u>List 1</u> : Select 1 subject	
Study Period 1 – SP1	Study Period 2 – SP2
CP1406 Web Design and Development	<u>CP1407</u> Introductory Machine Learning and Data Science - External
CP2410 Algorithms and Data Structures – External PREREQ: 6CP OF CP SUBJECTS	CP2405 Collective Intelligence and Entrepreneurship PREREQ: 24CP
CP2411 3D Modelling and Animation – External PREREQ: 6CP OF CP SUBJECTS	CP2408 Design Thinking and Creative IT Industies PREREQ: CP1403 OR CP1803 OR SC1201
	CP2409 Network Forensics and Data Communications – External PREREQ: CP1402 OR CP2012 OR CP2231 OR CP1802
	CP2412 Game Design and Technologies – External PREREQ: 6CP OF CP SUBJECTS

<u>List 2</u> : Select 3 subjects	
Study Period 1 – SP1	Study Period 2 – SP2
CP3402 Content Management Systems PREREQ: (CP1404 OR CP1804 AND CP1406 OR CP1806) OR CP2010, AND 24CP OF CP SUBJECTS	CP3404 Information Security PREREQ: 6CP OF CP SUBJECTS AND 12CP OF SUBJECTS
CP3403 Data Mining PREREQ: 6CP OF CP SUBJECTS AND 12CP OF SUBJECTS	CP3405 Design Thinking and Project Management PREREQ: CP2408
CP3406 Mobile Computing PREREQ: CP1404 OR CP1804 AND 18CP OF CP SUBJECTS	
CP3408 Game Engine and Simulation – External PREREQ: (CP1404 OR CP1804) AND 18 CP OF CP SUBJECTS	

<u>List 3</u> : Select 2 subjects*	
Study Period 1 – SP1	Study Period 2 – SP2
CL2501 Process Analysis PREREQ: EG1010	<u>CP1407</u> Introductory Machine Learning and Data Science - External
CP2410 Algorithms and Data Structures – External PREREQ: 6CP OF CP SUBJECTS	EA1110 Introductory Machine Learning and Data Science
CS2001 Engineering Strength of Materials PREREQ: EG1011	CP2408 Design Thinking and Creative IT Industies PREREQ: CP1403 OR CP1803 OR SC1201
EV2301 Urban Geography and Design PREREQ: 12CP LEVEL 1 SUBJECTS	CS2004 Surveying and Construction – TSV ONLY, offered ODD years only
MA2211 - Discrete Mathematics – TSV ONLY PREREQ: MATHS B	EG2010 Materials Science and Engineering – TSV only
PH2002 Classical Mechanics and Quantum Physics 1 PREREQ: MA1003 AND PH1005 AND (PH1006 OR PH1007 OR (EG1012 AND EG1011))	EV2502 Introduction to Geographic Information Systems PREREQ: 12CP LEVEL 1 SUBJECTS
EE4000 Signal Processing 3 – TSV only PREREQ: 48CP	MA2210 - Linear Algebra PREREQ: MA1003
ME4521 Bulk Materials Handling – TSV only, offered ODD years only PREREQ: 48CP	ME2525 Machine Element Design – TSV ONLY PREREQ: CS2001
	PH2240 Atomic and Nuclear Physics – TSV ONLY PREREQ: PH2002 AND MA1003

SP11 (Nov-Feb)

EV3502 Advanced Geographic Information Systems – TSV ONLY PREREQ: AT LEAST 12CP LEVEL 2 INCLUDING EV2502

^{*} If undertaking MA1020 only choose 1 subject from this list.