

RECOMMENDED STUDY PLAN

2021-2022

DEGREE [Bachelor of Engineering \(Honours\)](#) MAJOR [Electronic Systems and Internet of Things Engineering \(IOT\)](#)

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: 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

	Study Period 1 - SP1	Study Period 2 - SP2
Year 2	Degree Core: MA2000 Mathematics for Scientists and Engineers PREREQ: MA1003	Major Core: CP1404 Programming II PREREQ: CP1801 OR CP1401 OR CP1200 OR EG1002 OR CP2200 OR SC1201
		TRIMESTER 3 (Sept-Dec)
	Major Core: EE2201 Circuit Theory PREREQ: EG1012 AND MA2000	Major Core: EE2300 Electronics 1 PREREQ: EG1012
	Major Core: CC2510 Digital Logic and Computing Methods PREREQ: EG1002 OR CP1300	Major Core: CC2511 Embedded Systems Design PREREQ: EG1002 OR CP1300 OR CP1404
Major Core: PH2019 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	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	Major Core: CC3501 Computer Interfacing and Control PREREQ: CC2511
	Major Core: EE3010 Digital Signal Processing PREREQ: 48CP	Major Core: EE3600 Automatic Control 1 PREREQ: EG1012 AND MA2000
	Major Core: EE3901 Sensor Technologies PREREQ: EE2201 AND (CC2511 OR CC2003)	Major Core: EE3700 Communications Systems Principles PREREQ: EE2201
	Minor Core: PH2002 Classical Mechanics and Quantum Physics 1 PREREQ: MA1003 AND PH1005 AND (PH1006 OR PH1007 OR (EG1012 AND EG1011))	Major Core: MA3405 Statistical Data Mining for Big Data PREREQ: MA2405 OR MA2000 OR SC2202 OR SC2209

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
	Major Core: <u>CC4510</u> Digital System Design PREREQ: CC3501	Major Core: <u>CC4950</u> Design Project PREREQ: CC3501 AND (CC3910 OR EE3700) AND EE3901
	Major Core: <u>CP3406</u> Mobile Computing PREREQ: CP1404 OR CP1804 AND 18CP OF CP SUBJECTS	Major Core: <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)
	Minor Core List 1 or 2:	Minor Core List 1 or 2:

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