RECOMMENDED STUDY PLAN

Mid-Year Entry 2021

DEGREE **Bachelor of Engineering (Honours) – Bachelor of Information Technology**

NAME _____ MAJOR Electronic Systems and Internet of Things Engineering (IOT)

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 2 - SP2
Year 1 *MID-YEAR ENTRY*	**Degree Core:** EG1010 Process Engineering
	Degree Core: CP1403 Design Thinking
	Degree Core: EG1012 Electric Circuits
	List Options: *see tables below for details*

	Study Period 1 - SP1	Study Period 2 - SP2
Year 2	**Degree Core:** EG1000 Engineering 1	**Degree Core:** MA1003 Mathematical Techniques **PREREQ: MA1000 OR MA1011 OR MA1009**
	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**	**Major Core:** EE2300 Electronics 1 **PREREQ: EG1012**
	Degree Core: PH1005 Advanced Stream Physics 1 **PREREQ: MATHS B OR MA1020 OR MA1000 OR MA1008**	**List Options:** *see tables below for details*

	Study Period 1 - SP1	Study Period 2 - SP2
Year 3	**Degree Core:** MA2000 Mathematics for Scientists and Engineers **PREREQ: MA1003**	**Degree Core:** CP2406 Programming III **PREREQ: CP1404 OR CP1804 OR CP1300**
	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: EE2201 Circuit Theory **PREREQ: EG1012 AND MA2000**	**Major Core:** MA3405 Statistical Data Mining for Big Data **PREREQ: MA2405 OR MA2000 OR SC2202 OR SC2209**
	Major Core: CP1404 Programming II - *External* **PREREQ: CP1801 OR CP1401 OR CP1200 OR EG1002 OR CP2200 OR SC1201**	**List Options:** *see tables below for details*

	Study Period 1 - SP1	Study Period 2 - SP2
Year 4	**Degree Core:** CP1402 Internet Fundamentals – *External*	**Degree Core:** CP3407 Advanced Software Engineering **PREREQ: CP1404 OR CP1804 AND 18CP OF SUBJECTS**
	Major Core: PH2019 Introduction to Electromagnetism Optics and Early Quantum **PREREQ: (EG1012 OR PH1005) AND MA1003**	**Major Core:** EE3600 Automatic Control 1 **PREREQ: EG1012 AND MA2000**
	Major Core: EE3010 Digital Signal Processing **PREREQ: 48CP**	**Major Core:** CC3501 Computer Interfacing and Control **PREREQ: CC2511**
	Major Core: EE3901 Sensor Technologies **PREREQ: EE2201 AND (CC2511 OR CC2003)**	**List Options:** *see tables below for details*

	Study Period 1 - SP1	Study Period 2 - SP2
Year 5	**Degree Core:** EG4011 Thesis Part 1 of 2 **PREREQ: 72CP**	**Degree Core:** EG4012 Thesis Part 2 of 2 **PREREQ: EG4011**
	Major Core: CP3406 Mobile Computing **PREREQ: CP1404 OR CP1804**	**Major Core:** CC4950 Design Project **PREREQ: CC3501 AND CC3901 AND EE3901**
	Major Core: CC4510 Digital System Design **PREREQ: CC3501**	**Major Core:** EE3700 Communications Systems Principles **PREREQ: EE2201**
	List Options: *see tables below for details*	**Major Core:** CP3404 Information Security **PREREQ: 6CP of CP SUBJECTS AND 12CP OF SUBJECTS**

	Study Period 1 - SP1	
Year 6	**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**	*MID-YEAR COMPLETION*
	List Options: *see tables below for details*	
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	List Options: *see tables below for details*	

Further Degree Options:
Select any 2 undergraduate subjects **AND** Select 1 subject from List 1 **AND** Select 3 subjects from List 2 **AND** Select 2 subjects from List 3*

List 1: Select 1 subject	
Study Period 1 – SP1	**Study Period 2 – SP2**
CP1406 Web Design and Development	CP1407 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**

List 2: 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**	CP3405 Design Thinking and Project Management **PREREQ: CP2408**
CP3403 Data Mining **PREREQ: 6CP OF CP SUBJECTS AND 12CP OF SUBJECTS**	
CP3408 Game Engine and Simulation – *External* **PREREQ: (CP1404 OR CP1804) AND 18 CP OF CP SUBJECTS**	

List 3: Select 2 subjects*	
Study Period 1 – SP1	**Study Period 2 – SP2**
CP2410 Algorithms and Data Structures – *External* **PREREQ: 6CP OF CP SUBJECTS**	CP1407 Introductory Machine Learning and Data Science - *External*
	CP2408 Design Thinking and Creative IT Industies **PREREQ: CP1403 OR CP1803 OR SC1201**

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