JAMES COOK UNIVERSITY AUSTRALIA

RECOMMENDED STUDY PLAN   2022

DEGREE Bachelor of Engineering (Honours) – Bachelor of Science   NAME _____

BEng. MAJOR Electronic Systems and Internet of Things Engineering (IOT) - BSc MAJOR Choose a Major from Table B

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:** EG1002 Computing and Sensors	**Degree Core:** EG1010 Process Engineering
	Degree Core: MA1000 Mathematical Foundations **PREREQ: MA1020 OR MATHS B OR MATHS C**	**Degree Core:** EG1011 Statics and Dynamics **PREREQ: PH1005 OR (PHYSICS AND MATHS C)**
	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**
	Degree Core: EG1000 Engineering 1	**Degree Core:** EG1012 Electric Circuits

*Students may be required to take MA1020 in SP3 which will count as an elective line.

	Study Period 1 - SP1	Study Period 2 - SP2
Year 2	**Degree Core:** MA2000 Mathematics for Scientists and Engineers **PREREQ: MA1003**	**BEng Major Core:** EE2300 Electronics 1 **PREREQ: EG1012**
	BEng Major Core: EE2201 Circuit Theory **PREREQ: EG1012 AND MA2000**	**BEng Major Core:** CC2511 Embedded Systems Design **PREREQ: EG1002 OR CP1404**
	BEng Major Core: CC2510 Digital Logic and Computing Methods **PREREQ: EG1002 OR CP1401**	**BSc Major Core:**
	BSc Major Core:	

Trimester 3 (Sept-Dec)
BEng Major Core: CP1404 Programming II **PREREQ: CP1401 OR EG1002**

	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	**BEng Major Core:** EE3700 Communications Systems Principles PREREQ: EE2201
	BEng Major Core: PH2019 Introduction to Electromagnetism Optics and Early Quantum PREREQ: (EG1012 OR PH1005) AND MA1003	**BEng Major Core:** CC3501 Computing Interfacing and Control PREREQ: CC2511
	BSc Major Core:	**BEng Major Core:** EE3600 Automatic Control 1 PREREQ: EG1012 AND MA2000
	Elective: REQUIRED FOR BSc SC2202 Quantitative Methods in Science PREREQ: SC1102 OR MA1020 OR MA1000 OR MATHS B OR EQUIVALENT **OR** SC2209 Quantitative Methods in Science-Advanced PREREQ: SC1109 AND MA1003 PLUS 6CP OF OTHER LEVEL 1 SUBJECTS	**BSc Major Core:**

	Study Period 1 - SP1	**Study Period 2 - SP2**
Year 4	**BEng Major Core:** EE3010 Digital Signal Processing PREREQ: 48CP	**BEng Major Core:** MA3405 Statistical Data Mining for Big Data PREREQ: MA2405 OR MA2000 OR SC2202 OR SC2209
	BSc Major Core:	**BSc Major Core:**
	BSc Major Core:	**BSc Major Core:**

Trimester TBA	
BEng Major Core: CP3404 Information Security PREREQ: 18CP OF SUBJECTS INCLUDING CP1402	**BEng Major Core:** CP3406 Mobile Computing PREREQ: CP1404 OR CP1804

	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
	BEng Major Core: EE3901 Sensor Technologies PREREQ: EE2201 AND (CC2511 OR CC2003)	**BEng Major Core:** CC4950 Design Project PREREQ: CC3501 AND (CC3901 OR EE3700) AND EE3901
	BEng Major Core: CC4510 Digital System Design PREREQ: CC3501	**Elective:** *see below for details*
	Elective: *see below for details*	**Elective:** *see below for details*

Further Degree Options:

Select any 2 undergraduate subjects (f required to undertake MA1020 Preparatory Mathematics, select 1 subject **AND** Select 2 Level 2 or 3 Science subjects **AND** Select a BSc Major from Table B