

RECOMMENDED STUDY PLAN

2021

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.

Year 1	Study Period 1 - SP1	Study Period 2 - SP2
	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

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

Year 3	Study Period 1 - SP1	Study Period 2 - SP2
	BEng Major Core: <u>PH2019</u> Introduction to Electromagnetism Optics and Early Quantum PREREQ: (EG1012 OR PH1005) AND MA1003	BEng Major Core: <u>CC3501</u> Computer Interfacing and Control PREREQ: CC2511
	BSc Major Core:	BEng Major Core: <u>EE3600</u> Automatic Control 1 PREREQ: EG1012 AND MA2000
	BSc Major Core:	BSc Major Core:
	List Options: see information below	List Options: see information below

Year 4	Study Period 1 - SP1	Study Period 2 - SP2
	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	BEng Major Core: <u>MA3405</u> Statistical Data Mining for Big Data PREREQ: MA2405 OR MA2000 OR SC2202 OR SC2209
	BEng Major Core: <u>CP3406</u> Mobile Computing PREREQ: CP1404 OR CP1804	BEng Major Core: <u>EE3700</u> Communications Systems Principles PREREQ: EE2201
	BEng Major Core: <u>EE3010</u> Digital Signal Processing PREREQ: 48CP	BEng Major Core: <u>CP3404</u> Information Security PREREQ: 6CP of CP SUBJECTS AND 12CP OF SUBJECTS
	BSc Major Core:	BSc Major Core:

Year 5	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
	BEng Major Core: <u>EE3901</u> Sensor Technologies PREREQ: EE2201 AND (CC2511 OR CC2003)	BEng Major Core: <u>CC4950</u> Design Project PREREQ: CC3501 AND CC3901 AND EE3901
	BEng Major Core: <u>CC4510</u> Digital System Design PREREQ: CC3501	BSc Major Core:
	List Options: <i>see tables below for details</i>	List Options: <i>see information below</i>

Further Degree Options:

Select 2 subjects from List 1* **AND** Select 2 Level 2 or 3 Science subjects **AND** Select a BSc Major from Table B

List 1:	
Study Period 1 – SP1	Study Period 2 – SP2
<u>CL2501</u> Process Analysis – <i>TSV ONLY</i> PREREQ: EG1010	<u>EA1110</u> Evolution of the Earth
<u>CS2001</u> Engineering Strength of Materials PREREQ: EG1011	<u>CP2406</u> Programming III PREREQ: CP1404 OR CP1804 OR CP1300
<u>EV2301</u> Urban Geography and Design PREREQ: 12CP LEVEL 1 SUBJECTS	<u>CS2004</u> Surveying and Construction – <i>TSV ONLY, offered ODD years only</i>
<u>PH2002</u> Classical Mechanics and Quantum Physics 1 PREREQ: MA1003 AND PH1005 AND (PH1006 OR PH1007 OR (EG1012 AND EG1011))	<u>EG2010</u> Materials Science and Engineering – <i>TSV only</i>
<u>EE4000</u> Signal Processing 3 – <i>TSV only</i> PREREQ: 48CP	<u>EV2502</u> Introduction to Geographic Information Systems PREREQ: 12CP LEVEL 1 SUBJECTS
<u>ME4521</u> Bulk Materials Handling – <i>TSV only, offered ODD years only</i> PREREQ: 48CP	<u>MA2210</u> - Linear Algebra PREREQ: MA1003
<u>MA2211</u> - Discrete Mathematics – <i>TSV ONLY</i> PREREQ: MATHS B	<u>ME2525</u> Machine Element Design – <i>TSV ONLY</i> PREREQ: CS2001
	<u>PH2240</u> Atomic and Nuclear Physics – <i>TSV ONLY</i> PREREQ: PH2002 AND MA1003
	SP11 (Nov-Feb)
	<u>EV3502</u> Advanced Geographic Information Systems – <i>TSV ONLY</i> PREREQ: AT LEAST 12CP LEVEL 2 INCLUDING EV2502

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