

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

2021-2022

DEGREE	Bachelor of Engineering (Honours)	MAJOR Mechanical Engineering (MEN)
NAME		MINOR Mathematics (MAT)

To assist you with subject information, we recommend you consult with your CSE Course/Major Advisor and refer to <u>Subject Search</u>. 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	Major Core: EG2010 Materials Science and Engineering
	Major Core: CS2001 Engineering Strength of Materials PREREQ: EG1011	Major Core: ME2525 Machine Element Design PREREQ: CS2001
	Major Core: ME2512 Thermofluid Mechanics PREREQ: EG1011	Major Core: EE3600 Automatic Control 1 PREREQ: EG1012 AND MA2000
	Major Core: ME2521 Dynamics of Machine Elements PREREQ: EG1011	Minor Core List 1:

Year 3	Study Period 1 - SP1	Study Period 2 - SP2
	Major Core: EG3001 Finite Element Analysis PREREQ: EG1002 AND EG1011 AND MA2000	Major Core: CS3008 Fluid Mechanics PREREQ: MA2000 AND ME2512
	Major Core: ME3511 Dynamics and Acoustics PREREQ: MA2000 AND ME2521	Major Core: ME3512 Heat and Mass Transfer PREREQ: MA2000
	Major Core: ME3515 Advanced Manufacturing Engineering – offered EVEN years only* PREREQ: ME2525	Major Core: ME3525 Mechanical Design PREREQ: ME2525
	Minor Core: MA2211 Discrete Mathematics PREREQ: MATHS B	Minor Core: MA2210 Linear Algebra

Year 4	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
	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: 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
	Major Core: ME4513 Advanced Fluid Mechanics PREREQ: CS3008	Major Core: ME4515 Advanced Mechanical Engineering Design PREREQ: ME3525
	Minor Core List 1:	Major Core: ME4522 Energy, Conversion and Refrigeration PREREQ: ME2512

Further Degree Options:

Minor Core List 1:	
Study Period 1 – SP1	Study Period 2 – SP2
MA3211 Mathematical Modelling and Differential Equations PREREQ: MA2000 AND (MA2210 OR MA2201)	MA2405 Advanced Statistical Modelling PREREQ: MA1401 OR BZ2001 OR MA2401 OR SC2202 OR SC2209 AND MA1000
SC2202 Quantitative Methods in Science PREREQ: SC1102 OR MA1020 OR MA1000 OR MATH B OR EQUIVALENT	MA2900 Mathematics Content Knowledge for Lower Secondary School Teaching PREREQ: MA1000
	MA3210 Probability and Stochastic Processes PREREQ: MA2000 AND (MA2210 OR MA2201)
	MA3212 Optimisation and Operations Research PREREQ: MA2000 AND (MA2210 OR MA2201)