JAMES COOK UNIVERSITY AUSTRALIA

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.

Bachelor of Engineering (Mechanical Engineering) – Bachelor of Information Technology – 2020 Beginning of Year Entry

Teaching Period 1, 2020		**Teaching Period 2, 2020**	
Study Period 1	CP1402:03 Internet Fundamentals	Study Period 2	CP1403:03 Design Thinking
Study Period 1	EG1000:03 Engineering 1	Study Period 2	EG1010:03 Process Engineering **Assumed Knowledge: Mathematics B, Mathematics C or MA1020**
Study Period 1	EG1002:03 Computing and Sensors	Study Period 2	EG1012:03 Electric Circuits **Assumed Knowledge: Mathematics B, Mathematics C or MA1020**
Study Period 1	MA1000:03 Mathematical Foundations **PREREQ: MA1020, Mathematics B or Mathematics C**	Study Period 2	MA1003:03 Mathematical Techniques **PREREQ: MA1000, MA1011 or MA1009**
Teaching Period 1, 2021		**Teaching Period 2, 2021**	
Study Period 1	CP1404:03 Programming II **PREREQ: CP1801, CP1401, EG1002 or CP2200**	Study Period 2	EG1011:03 Statics and Dynamics **PREREQ: PH1005 or Mathematics C**
Study Period 1	PH1005:03 Advanced Stream Physics 1 **PREREQ: Mathematics B, MA1020, MA1000 or MA1008**	Study Period 2	CP2406:03 Programming III **PREREQ: CP1404 or CP1804**
Study Period 1	MA2000:03 Mathematics for Scientists and Engineers **PREREQ:MA1003**	Study Period 2	**Major Subject** EG2010:03 Materials Science and Engineering
Study Period 1	CP2404:03 Database Modelling	Study Period 2	Select 3 credit points of subjects from List 1
Teaching Period 1, 2022		**Teaching Period 2, 2022**	
Study Period 1	EG3000:03 Engineering Project Management **PREREQ: EG1000, EG1002, EG1010, EG1011, EG1012, MA1000, MA1003 and (PH1005 and EG1001) or 36cp of subjects**	Study Period 2	CP3407:03 Advanced Software Engineering **PREREQ: CP1404, CP1804 and 18cp of CP Subjects**
Study Period 1	**Major Subject** CS2001:03 Engineering Strength of Materials **PREREQ: EG1011**	Study Period 2	**Major Subject** ME2525:03 Machine Element Design **PREREQ: CS2001**
Study Period 1	**Major Subject** ME2512:03 Thermofluid Mechanics **PREREQ: EG1011**	Study Period 2	Select 3 credit points of subjects from List 2
Study Period 1	**Major Subject** ME2521:03 Dynamics of Machine Elements **PREREQ: EG1011**	Study Period 2	Select 3 credit points of subjects from List 2

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Teaching Period 1, 2023		Teaching Period 2, 2023	
Study Period 1	**Major Subject** EG3001:03 Finite Element Analysis **PREREQ: EG1002 and EG1011 and MA2000**	Study Period 2	**Major Subject** CS3008:03 Fluid Mechanics **PREREQ: MA2000 and ME2512**
Study Period 1	**Major Subject** ME3511:03 Dynamics and Acoustics **PREREQ: MA2000 and ME2521**	Study Period 2	**Major Subject** EE3600:03 Automatic Control 2 **PREREQ: EG1012 and MA2000**
Study Period 1	Select 3 credit points of subjects from List 3	Study Period 2	**Major Subject** ME3512:03 Heat and Mass Transfer **PREREQ: MA2000**
Study Period 1	Select 3 credit points of subjects from List 2	Study Period 2	**Major Subject** ME3525:03 Mechanical Design **PREREQ: EG3001 and ME2525**
Teaching Period 1, 2024		**Teaching Period 2, 2024**	
Study Period 1	EG4011:03 Thesis Part 1 of 2 **PREREQ: 96 credit points of subjects**	Study Period 2	EG4012:03 Thesis Part 2 of 2 **PREREQ: EG4011**
Study Period 1	**Major Subject** ME4513:03 Advanced Fluid Mechanics **PREREQ: CS3008**	Study Period 2	**Major Subject** EG4013:03 Asset Management, Maintenance and Reliability **PREREQ: EG1000, EG1002, EG1010, E1011, EG1012, MA1000, MA1003 and (Ph1005 or EG1001) or 36cp of subjects**
Study Period 1	**Major Subject** ME3515:03 Advanced Manufacturing Engineering **PREREQ: ME2525 and (ME2518 or EG2010)**	Study Period 2	**Major Subject** ME4522:03 Energy, Conversion and Refrigeration **PREREQ: ME2512**
Study Period 1	Select 3 credit points of subjects from List 3	Study Period 2	**Major Subject** ME4515:03 Advanced Mechanical Engineering Design **PREREQ: ME3525**

PROFESSIONAL ACCREDITATION STATUS

This course is accredited by Engineers Australia. Graduates are immediately eligible for graduate membership of Engineers Australia and, following a period of professional practice, may become Chartered Professional Engineers (CPEng).

SPECIAL ADMISSION REQUIREMENTS

Approved exposure to Professional Engineering Practice, including required activities and industry placement, equivalent to a minimum 60 days full-time industry placement.

Must hold current Senior First Aid certificate at the time of graduation.

SPECIAL MAJOR REQUIREMENTS

Some subjects in each of the majors may require students to participate in field trips, site visits or other off-campus activities. A fee may be charged by the College for costs associated with these trips.

COURSE PROGRESSION REQUISITES

Where there is overlap between the core subjects for the course and the chosen major, students must contact the College to add substitute subjects to their study plans.

It is strongly recommended that in this situation students take extra engineering subjects as listed under the corresponding major in the Bachelor of Engineering (Honours) single degree.

SPECIAL ASSESSMENT REQUIREMENTS

The engineering thesis topic must be specific to the student's chosen engineering major.

ADDITIONAL INFORMATION

Bachelor of Engineering – Bachelor of Information Technology course handbook
Mechanical Engineering major handbook