



D375.3

Campus of Offer: Geelong Waurm Ponds Campus (G) & Cloud (online) (X)

Duration: 5.5 years full time or part time equivalent

Course code: D375

Bachelor of Engineering / Bachelor of Information Technology MECHATRONICS AND ROBOTICS MAJOR

year

1	Trimester 1	SEE010 Safety Induction Program – 0 credit point compulsory unit (Compulsory: 50-minute safety training session conducted at the beginning of the your first Trimester)			
		SIT010 Safety Induction Program – 0 credit point compulsory unit (Compulsory: 50-minute safety training session conducted at the beginning of the your first Trimester)			
1	Trimester 1	SEB121 Engineering Practice	SEB101[^] Engineering Fundamentals	SIT199 Applied Algebra and Statistics	SED102 Engineering Graphics and CAD
	Trimester 2	SEE103 Electrical Systems	SEM111 Engineering Materials 1	SIT194 Introduction to Mathematical Modelling	SIT172 Programming for Engineers
2	Trimester 1	SEP291 Engineering Modelling	SEM223 Engineering Mechanics	SIT101 Fundamentals of Information Technology	SIT105 Critical Thinking and Problem Solving
	Trimester 2	SEB223 The Professional Environment for Engineers & Scientists	SEM222 Stress Analysis	SIT103 Database and Information Retrieval	SIT104 Introduction to Web Development
3	Trimester 1	SEE202 Digital Electronics	SEE206 Measurement and Instrumentation	SIT223 Information Technology Professional Skills	IT
	Trimester 2	SEE215 Microcontroller Principles	SEE208 Modern Power Generation Systems Design	SIT202 Computer Networks	IT
SEP490: Engineering Work Experience (12 weeks)					
4	Trimester 1	SEM327 Dynamics of Machines [~]	SEE321 Electro-Mechanical Systems	SED302* Computer Aided Engineering	SEE320 Microcontroller System Design
	Trimester 2	SEB324 Project Management	SEE312 Industrial Data Communication	SEE326 Artificial Intelligence for Autonomous Systems	SEE344 Control Systems
5	Trimester 1	SEJ441 Engineering Project A Offered T1, T2 and T3	SER400[#] Virtual and Augmented Interfaces	SEM433 Mechatronic Design	SIT374 Project Management
	Trimester 2	SEJ446 Engineering Project B (2cp) Offered T1, T2 and T3		SEE412 Data Communication	SIT302 Project
5.5	Trimester 1	IT	IT	IT – Level 3	IT – Level 3

^ SEB101 replaces SEP101 from 2016

* SED302 replaces SEE325 from 2016

SER400 replaces SEE426 from 2016

-SEM327 will be offered in Trimester 2 from 2017

This map is a guide only and should be used in conjunction with the 2016 on-line Handbook.

Rev: 1 September 2015

Course rules

This combined course comprises a total of 44 credit points which must include the following:

Engineering component:

- 30 credit points of core engineering units
- One approved Engineering major:
 - [civil](#)
 - [electrical and electronics](#)
 - [mechanical](#)
 - [mechatronics and robotics](#)
- Combined Engineering students are exempt from engineering elective requirements.
- See course entry for the [Bachelor of Engineering \(S367\)](#) for details of core units.

Information Technology component:

- 16 credit points of Information Technology units including:
 - 8 credit points of core IT units
 - One IT major:
 - [Computer Science](#)
 - [Game Development](#)
 - [Networking](#)
 - [Security](#)
 - [Software Development](#)
 - [Mathematical Modelling](#)
- 2 Engineering units course grouped for IT: SIT172 and SEP291.
- See course entry for the [Bachelor of Information Technology \(S326\)](#) for further details.

Students must meet the minimum requirements for each award.