4651 Bachelor of Computer Systems Engineering (Honours) 2015

Computer Systems Engineering

Stage One (48 credit points)				
Sem	ENG1090 Foundation Mathematics and		FIT1029 Algorithm problem	ECE2071 Computer
1	ENG1002 Engineering design: cleaner, safer, smarter		solving	organisation and
	OR			programming B
	ENG1091 Mathematics for e	ngineering <u>and</u>		
	ENG1060 Computing for eng	gineers		
Sem	ENG1091 Mathematics for engineering <u>and</u>		FIT1008 Computer science	ECE2072 Digital systems
2	ENG1060 Computing for eng	gineers		
	OR			
		n: cleaner, safer, smarter <u>and</u>		
	one approved elective			
Stage Two (48 credit points)				
Sem	ECE2011 Signal processing	ECE2041 Telecommunications	ECE2061 Analogue	ECE3073 Computer
1			electronics	systems
Sem	ECE2021	ECE2031 Circuits and control	ENG2092 Advanced	Approved elective
2	Electromagnetism		engineering mathematics B	
Stage Three (48 credit points				
Sem	ECE3022 Wireless and	Computer Systems	ECSE elective	Approved elective
1	guided EM	Engineering elective		
Sem	ECE3062 Electronic	ECE3091 Engineering design	Computer Systems	Computer Systems
2	systems and control		Engineering elective	Engineering elective
Stage Four (48 credit point				
Sem	ECE4094 Project A	ECE4099 Professional practice	ECSE elective	Computer Systems
1				Engineering elective
Sem	ECE4095 Project B	ECE4074 Advanced Computer	ECSE elective	Approved elective
2		Architecture <i>or</i>		
		ECE5881 System		
		development (must be		
		approved)		

Electives - approved elective units may include (subject to pre-requisites):

(a) The following ${\bf Computer\ Systems\ Engineering\ }$ units:

ECE4012 Applied digital signal processing ECE4023 Radio frequency electronics

ECE4024 Wireless communications

ECE4042 Communications theory

ECE4043 optical communications

ECE4044 Telecommunications protocols

ECE4045 Network performance

ECE4076 Computer vision

ECE4077 Advanced computing techniques

ECE4078 Intelligent robotics

Any ECE4xxx unit deemed suitable*

Approved units from the Faculty of Information Technology up to a maximum of 24 credit points* (b) Any unit offered by the Department of Electrical and Computer Systems Engineering (ECSE) *

(c) A unit from elsewhere in the university*

Units in (b) and (c) must not include substantial material already completed or to be taken as part of the degree. Only one unit may be taken at each level of the degree from this category, allowing students to pursue an approved sequence of units from elsewhere in the University.

*subject to departmental approval

Notes

Notes			
Credit points	Unless specified, all units are worth 6 credit points		
	Bachelor of Computer Systems Engineering 32 units x 6cp = Total of 192 credit points		
Unit requisites	All pre-requisite and co-requisite requirements must be undertaken in order to be able to enrol		
	into a specific unit		
Duration of degree	4 years full-time, 8 years part-time		
Time limit	Time limit = 8 years. Students have eight years in which to complete this award from the time		
	they commence first year. Periods of intermission are counted as part of the eight years.		
Course advice	www.eng.monash.edu.au/current-students/course-advice.html		
Monash University handbook	Students should follow the course structure for the year the course was commenced		
	http://monash.edu/pubs/2015handbooks/courses/index-byfaculty-eng.html		