BACHELOR OF COMPUTER SCIENCE ADVANCED (HONOURS) (C3001) – 2018

Year 1 (48 credit points)

First	FIT1053	FIT1047	MAT1830	Elective
Semester	Algorithms and programming in python (advanced)	Introduction to computer systems, networks and security	Discrete mathematics for computer science	
Second	FIT1054	FIT1049	MAT1841	Elective
Semester	Computer science	IT professional practice	Continuous	
	(advanced)		mathematics for	
	[FIT1053]		computer science	

Year 2 (48 credit points)

First	FIT2004	FIT2083	FIT2099	Elective
Semester	Algorithms and data	Innovation and	Object oriented design	
	structures [FIT1008 or FIT1054 & 6 pts L1 Maths]]	research in computer science [24 pts of level 1 FIT]	and implementation [One of FIT1045, FIT1048, FIT1051, FIT1008]	
Second	FIT2014	FIT2102	FIT2082	Elective
Semester	Theory of computation	Programming paradigms	Computer science research project	
	[FIT1045 or FIT1053 and MAT1830]	[FIT1008 or FIT1054]	[FIT2083]	

Year 3 (48 credit points)

First		FIT3171	Level 3	Elective
Semester	FIT3144	Databases	Computer Science	
	Advanced computer		Approved Elective*	
	science project	[One of FIT1045, FIT1048,		
	(12 points)	FIT1051, FIT1053 or ENG1003]		
Second		FIT3155	FIT3143	Elective
Semester	[FIT2004 & FIT2083]	Advanced data	Parallel computing	
		structures and		
		algorithms [FIT2004]	[FIT2004]	

Year 4 (48 credit points)

First	FIT4441	FIT4442	Level 3	Elective
Semester	Honours thesis – part 1	Honours thesis – part 2	Computer Science	
			Approved Elective*	
Second	FIT4443	FIT4444	Level 4/5	Elective
Semester	Honours thesis – part 3	Honours thesis – final	Computer Science	
			Approved Elective	

* Level 3 Approved Computer Science Electives:

FIT3031 Information and network security FIT3142 Distributed computing

FIT3077 Software engineering: architecture and design FIT3146 Emergent technologies and interfaces

FIT3080 Intelligent systems FIT3152 Data analytics

FIT3081 Image processing
FIT3159 Computer architecture
FIT3088 Computer graphics
FIT3165 Computer networks
FIT3094 Artificial life, artificial intelligence and virtual
environments
FIT3173 Software security
FIT3175 Usability

FIT3139 Computational science MTH3170 Network mathematics

Note that not all units will be taught in every year and come will be offered only in alternate years

Notes

Credit points Unless specified, all units are worth 6 credit points Bachelor of Computer Science Advanced (Honours) 32 units x 6 credit points = Total of 192 credit points	
Year Level Requirements	1) Normally 48 points, and a maximum of 60 points, of first year level units will be counted; 2) At least 36 points must be completed at third year level.
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 = 10 years. Students have ten years in which to complete this award from the time they commence first year. Periods of intermission are counted as part of the ten years.

C3001: NOV 2017

BACHELOR OF COMPUTER SCIENCE ADVANCED (HONOURS) (C3001) – 2018

(Industry Based Learning/Research Based Learning placement)

Year 1	148	credit	noints
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First	FIT1053	FIT1047	MAT1830	Elective
Semester	Algorithms and programming in python (advanced)	Introduction to computer systems, networks and security	Discrete mathematics for computer science	
Second	FIT1054	FIT1049	MAT1841	Elective
Semester	Computer science	IT professional practice	Continuous	
	(advanced)		mathematics for	
	[FIT1053]		computer science	

Year 2 (54 credit points)

Summer	Elective			
Semester				
First	FIT2004	FIT2083	FIT2099	Elective
Semester	Algorithms and data	Innovation and	Object oriented design	
	structures	research in computer	and implementation	
	[FIT1008 or FIT1054 & 6 pts	science	[One of FIT1045, FIT1048,	
	L1 Maths]]	[24 pts of level 1 FIT]	FIT1051, FIT1008]	
Second	FIT2014	FIT2102	FIT2082	Elective
Semester	Theory of computation	Programming	Computer science	
		paradigms	research project	
	[FIT1045 or FIT1053 and	[FIT1008 or FIT1054]	[FIT2083]	
	MAT1830]			

Year 3 (42 credit points)

First Semester	FIT3153 Research-based learning (18 points) OR FIT3045 Industry-based learning (18 points)			
Second	FIT3155	FIT3171	Level 3	
Semester	Advanced data	Parallel computing	Databases	Computer Science
	structures and algorithms [FIT2004]	[FIT2004]	[One of FIT1045, FIT1048, FIT1051, FIT1053 or ENG1003]	Approved Elective*

Year 4 (48 credit points)

rear 1 (to dream points)				
First	FIT4441	FIT4442	Level 4/5	Elective
Semester	Honours thesis – part 1	Honours thesis – part 2	Computer Science	
			Approved Elective	
Second	FIT4443	FIT4444	Elective	Elective
Semester	Honours thesis – part 3	Honours thesis – final		
	First Semester Second	First FIT4441 Semester Honours thesis – part 1 Second FIT4443	First FIT4441 FIT4442 Semester Honours thesis – part 1 Honours thesis – part 2 Second FIT4443 FIT4444	First Semester FIT4441 FIT4442 Honours thesis – part 1 Honours thesis – part 2 Computer Science Approved Elective Second FIT4443 FIT4444 Elective

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FIT3031 Information and network security FIT3142 Distributed computing

FIT3077 Software engineering: architecture and design FIT3146 Emergent technologies and interfaces

FIT3080 Intelligent systems FIT3152 Data analytics
FIT3081 Image processing FIT3159 Computer architecture
FIT3088 Computer graphics FIT3165 Computer networks

FIT3094 Artificial life, artificial intelligence and virtual FIT3173 Software security environments FIT3175 Usability

FIT3139 Computational science MTH3170 Network mathematics
Note that not all units will be taught in every year and come will be offered only in alternate years

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Credit points	Unless specified, all units are worth 6 credit points Bachelor of Computer Science Advanced (Honours) 32 units x 6 credit points = Total of 192 credit points
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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 = 10 years. Students have ten years in which to complete this award from the time they commence first year. Periods of intermission are counted as part of the ten years.

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