

UNIT OFFERINGS YEAR 2017- Bachelor of Computer Science (C2001)

School of Information Technology Malaysia Campus

List is Subject to Change

Last Updated: 31 January 2017

Semester 1					
Unit Set	Unit Code	Unit Title	Pre-requisite	Prohibition	Lecturer
Core	FIT1008	Introduction to computer science	((One of FIT1040, ECE2071, FIT1002) and FIT1029) or FIT1045	CSE1303, CSC1030, FIT1015, FIT2085	Dr Muhammad Fermi Pasha
	FIT1045	Algorithms and programming fundamentals in python	VCE Mathematics Methods or Specialist Mathematics units 3 & 4 with a study score of 25 or MTH1010. Note: For 2016 Further Mathematics with a study score of 35 will be accepted.	FIT1029	Dr Reza Zare
	FIT1047	Introduction to computer systems, networks and security		FIT1031 and FIT2078	Mr Tham Weng Kee
	FIT1049	IT professional practice	Completion of 12 points of FIT units.	FIT2003	Dr Nik Nailah
	FIT2004	Algorithms and data structures	One of FIT1008, FIT1015, FIT2085 or CSE1303 and 6 points of Level 1 maths.	CSE2304, FIT2009	Dr Anuja Dharmaratne
	FIT2099	Object oriented design and implementation	(ENG1003 and ENG1060) or one of FIT1045, FIT1048, FIT1051, FIT1008 or FIT2071	FIT2024	Dr Jasbir Kaur
	MAT1830	Discrete mathematics for computer science	VCE Specialist Mathematics or Mathematical Methods units 3 and 4 with a study score of at least 25 or Further maths with a study score of at least 35.	MAT1077, MTH1112	Dr Foo Lee Kien
	MAT1841	Continuous mathematics for computer science	VCE Specialist Mathematics or Mathematical Methods units 3 and 4 with a study score of at least 25 or Further maths with a study score of at least 35.	ENG1090, MTH1020, MAT2003	Ms Wong Foong Wei
Elective	FIT1033	Foundations of 3D		FIT2015, DIS1911	Mr Teo Bee Guan
	FIT1050	Web fundamentals			Ms Catherine Hiew
	FIT2001	Systems development	24 points of FIT units	BUS2021, CPE2003, CSE1204, CSE1205, GCO1813, GCO2601, GCO2852, GCO2826, IMS1001, IMS1002, IMS1805, IMS2071, IMS9001	Penny Goh Kim Nee
	FIT2081	Mobile application development	FIT1045, FIT1048, FIT1051 or FIT1002 or equivalent		Dr Bo-Wei Chen
	FIT2093	Introduction to cyber security	One of FIT1047 or FIT1031 or equivalent and one of FIT1045, FIT1048 or FIT1051 or equivalent introductory programming	FIT2078	A/Prof Kok Shiek Wong
	FIT2094	Databases	One of FIT1045, FIT1048, FIT1051 or equivalent introductory programming unit	FIT1004, FIT3171	Dr Jin Zhe
	FIT3031	Information and network security **	One of FIT1047, FIT1031, FIT1019, FIT1005, FIT2008 or ECE2041	FIT2058, FIT3018, FIT4028	Mr Tham Weng Kee
	FIT3045	Industry-based learning	Completed 72 credit pts. Prerequisite units for BSE, BCS students commencing in 2016: One of FIT1045, FIT1048, FIT1051 or ENG1003. Prerequisite units for BCS students: FIT1049 or equivalent.	BUS3000	Dr Nik Nailah
	FIT3047	Industry experience studio project 1	FIT Undergraduate Common Core units ((FIT1001 and FIT1005) or FIT1031) and ((FIT1040 and one of FIT1035, FIT1008, FIT2034, FIT2071, FIT2076, FIT2081) or FIT1002) and FIT1004 and FIT2001 and FIT2002 and (FIT1003 or FIT2003) and (2 x FIT units at any year level) and (Any 2 FIT 2nd or 3rd year units) and must be core in the student's degree program and completion of a total of 84 points towards the degree.	CPE3200, CPE3300, CSE3200, CSE3301, FIT2032, FIT3015, FIT3039, FIT3040, FIT3038, FIT3025, FIT3026, FIT3016, FIT3017, FIT3045, GCO3819, GCO3700, GCO3800, GCO3900, GCO3800A, IMS3000, IMS3501, IMS3502	Dr Anuja Dharmaratne
	FIT3077	Software engineering: architecture and design**	FIT2099 or (FIT2001 and (FIT2004 or FIT2024 or CSE2304)) or (FIT2001 and FIT2081)	CSE3308	Dr Imran Ghani
	FIT3081	Image processing**	FIT2004 (or CSE2304) and FIT2014 (or CSE2303)	CSE3314	Dr Anuja Dharmaratne
FIT3140	Advanced programming	FIT1008 or FIT2085		Dr Chun Yong Chong	
FIT3143	Parallel computing	FIT2004 C or C++ programming language	FIT4001, CSE4333	Mr Tham Weng Kee	

NOTES: FITxxxx : ** Approved Computer Science Elective

Pre-requisites and prohibitions listed are only for students in IT courses. Students in other courses who wish to take FIT units as electives must check the unit details (pre-reqs, prohibitions etc) at <http://www.monash.edu.au/pubs/handbooks/>

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Semester 2					
Unit Set	Unit Code	Unit Title	Pre-requisite	Prohibition	Lecturer
Core	FIT1008	Introduction to computer science	((One of FIT1040, ECE2071, FIT1002) and FIT1029) or FIT1045	CSE1303, CSC1030, FIT1015, FIT2085	TBA
	FIT1045	Algorithms and programming fundamentals in python	VCE Mathematics Methods or Specialist Mathematics units 3 & 4 with a study score of 25 or MTH1010. Note: For 2016 Further Mathematics with a study score of 35 will be accepted.	FIT1029	TBA
	FIT1049	IT professional practice	Completion of 12 points of FIT units.	FIT2003	TBA
	FIT2004	Algorithms and data structures	One of FIT1008, FIT1015, FIT2085 or CSE1303 and 6 points of Level 1 maths.	CSE2304, FIT2009	TBA
	FIT2014	Theory of computation	One of FIT1045, FIT1048, FIT1051, ENG1003, or an equivalent introductory programming unit, and one of MAT1830 or MTH1030 or equivalent. Students are expected to have basic competence in computer programming.	CSE2303	TBA
	FIT2102	Programming paradigms	FIT1008		TBA
	MAT1830	Discrete mathematics for computer science	VCE Specialist Mathematics or Mathematical Methods units 3 and 4 with a study score of at least 25 or Further maths with a study score of at least 35.	MAT1077, MTH1112	TBA
	MAT1841	Continuous mathematics for computer science	VCE Specialist Mathematics or Mathematical Methods units 3 and 4 with a study score of at least 25 or Further maths with a study score of at least 35.	ENG1090, MTH1020, MAT2003	TBA
Elective	FIT1043	Introduction to data science	VCE Mathematics Methods or Specialist Mathematics units 3 & 4 with a study score of 25 or MTH1010. Note: For 2016 Further Mathematics with a study score of 35 will be accepted.	FIT5145	TBA
	FIT2002	IT project management	Completion of at least 36 points of study, including one of (FIT1002, FIT1040, FIT1045, FIT1048, FIT1051, ENG1003) (or equivalent) and one of (FIT1049, FIT2003, EDF2005) (or equivalent)	AFW3043, BEW3640, BUS2176, CIV3205, CPE2006, CSE2203, GCO3807, GEG3104, GSE3003, FIT3086, MGW2700, MMS2203	TBA
	FIT2079	Data visualisation	Completion of 24 points at first year	FIT3020	TBA
	FIT2086	Modelling for data analysis	MAT1830 and one of MAT1841, MAT2003 or MTH1030		TBA
	FIT2100	Operating systems	FIT1047 or ENG1003	FIT2070	TBA
	FIT2101	Software engineering process and management	(ENG1003 and ENG1060) or one of FIT1045, FIT1048 or FIT1051		TBA
	FIT2104	Web database interface	FIT2094	FIT2028, FIT2029, FIT2076, FIT3043, FIT3057	TBA
	FIT2107	Software quality and testing	(ENG1003 and ENG1060) or one of FIT1045, FIT1048 or FIT1051	FIT4004	TBA
	FIT3003	Business intelligence and data warehousing	One of FIT1004 or FIT2094		TBA
	FIT3045	Industry Based Learning	Completed 72 credit pts. Prerequisite units for BSE, BCS students commencing in 2016: One of FIT1045, FIT1048, FIT1051 or ENG1003. Prerequisite units for BCS students: FIT1049 or equivalent.	BUS3000	TBA
	FIT3047	Industrial Experience Project 1	FIT Undergraduate Common Core units ((FIT1001 and FIT1005) or FIT1031) and ((FIT1040 and one of FIT1035, FIT1008, FIT2034, FIT2071, FIT2076, FIT2081) or FIT1002) and FIT1004 and FIT2001 and FIT2002 and (FIT1003 or FIT2003) and (2 x FIT units at any year level) and (Any 2 FIT 2nd or 3rd year units) and must be core in the student's degree program and completion of a total of 84 points towards the degree.	CPE3200, CPE3300, CSE3200, CSE3301, FIT2032, FIT3015, FIT3039, FIT3040, FIT3038, FIT3025, FIT3026, FIT3016, FIT3017, FIT3045, GCO3819, GCO3700, GCO3800, GCO3900, GCO3800A, IMS3000, IMS3501, IMS3502	TBA
	FIT3048	Industry experience studio project 2	FIT3047	CPE3200, CPE3300, CSE3200, CSE3301, FIT2032, FIT3015, FIT3016, FIT3017, FIT3025, FIT3026, FIT3038, FIT3039, FIT3040, FIT3045, GCO3819, GCO3700, GCO3800, GCO3900, GCO3800A, IMS3000, IMS3501, IMS3502	TBA
	FIT3063	Human-computer interaction	One of FIT2001, FIT2027, IMS2805, CSE2200 or equivalent	CSE3030, FIT2016, FIT3033, GCO3814, IMS2403, IMS3470, MMS2403	TBA
	FIT3080	Intelligent systems**	FIT2004 or CSE2304	CSE2309, CSE3309, DGS3691	TBA
FIT3152	Data analytics**	FIT1006, ETC1000, FIT2086 or equivalent. (For example BUS1100, ETC1010, ETC2010, ETF2211, ETW1000, ETW1010, ETW1102, ETW2111, ETX1100, ETX2111, ETX2121, MAT1097, STA1010)		TBA	

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