

UNIT OFFERINGS YEAR 2020- Bachelor of Computer Science in Data Science (C2001)

School of Information Technology Malaysia Campus

List is Subject to Change

Last Updated: 27 May 2020

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 or FIT1053	CSE1303, CSC1030, FIT1015, FIT2085	Dr Muhammad Fermi Fasha
	FIT1043	Introduction to data science	MTH1010 or 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	Dr Ian Tan
	FIT1045	Algorithms and programming fundamentals in python	VCE Mathematics Methods or Specialist Mathematics units 3 & 4 with a study score of 25 or MTH1010.	FIT1029, FIT1053	Dr Ganesh
	FIT1047	Introduction to computer systems, networks and security		FIT1031 and FIT2078	Dr Tan Chee Keong
	FIT1055	IT professional practice and ethics	Completion of 12 points of FIT units.	FIT2003, FIT1049	Dr Nik Nailah Abdullah
	FIT2004	Algorithms and data structures	One of FIT1008, FIT1015, FIT1054, FIT2085 or CSE1303 and 6 points of Level 1 maths.	CSE2304, FIT2009	Dr Lim Wern Han
	FIT3171	Databases	One of FIT1045, FIT1048, FIT1051, FIT1053 or ENG1003	FIT2094	Dr Jin Zhe
	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.		Mr Tham Weng kee
	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	FIT1051	Programming fundamentals in java		FIT1002	Dr Lim Mei Kuan
	FIT2081	Mobile application development	FIT1045, FIT1048, FIT1051, FIT1053, FIT2071 or FIT1002 or equivalent		Dr Lim Chern Hong
	FIT2093	Introduction to cyber security	FIT1047 or FIT1031 and one of FIT1045, FIT1048, FIT1051, FIT1053, FIT1031	FIT2078	Prof Raphael Phan
	FIT2099	Object oriented design and implementation	(ENG1003 and ENG1060) or one of FIT1045, FIT1048, FIT1051, FIT1053, FIT1008 or FIT2071	FIT2024	Dr Jasbir Kaur
	FIT3045	Industry-based learning	Completed 72 credit pts including 60 FIT or MAT credit points. Prerequisite units: One of FIT1045, FIT1053, FIT1048, FIT1051 or ENG1003 and FIT1049 or equivalent.		Dr Ian Tan
	FIT3077	Software engineering: Architecture and design	FIT2099 or (FIT2001 and (FIT2004 or FIT2024 or CSE2304)) or (FIT2001 and FIT2081)		Dr Chong Chun Yong
	FIT3081	Image processing	FIT2004		A/Prof Anuja Dharmaratne
	FIT3134	Entrepreneurship	Students must have completed at least 72 credit points in an undergraduate degree or double degree.	BEX3411	Ms Goh Kim Nee
	FIT3152	Data analytics**	One of ETC1000, ETW1000, ETF1100, ETW1010, FIT1006, FIT2086, ETW2111, ETC1010 or STA1010	ETX2250	Dr Ganesh
	FIT3155	Advanced data structures and algorithms	FIT2004		A/Prof Anuja Dharmaratne
	FIT3159	Computer architecture	One of FIT1047, FIT1008 or FIT2085		Mr Tham Weng Kee
FIT3182	Big data management and processing**	FIT2004 and one of FIT3171, FIT2094		Dr Vishnu	
FIT3199	Industry work experience	Students must have completed a minimum of 96 credit points including FIT1049 or FIT1055 Professional practice.		Dr Lim Mei Kuan	

NOTES: FITxxxx : ** Approved Data Science Elective

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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 or FIT1053	CSE1303, CSC1030, FIT1015, FIT2085	Dr Muhammad Fermi Fasha
	FIT1043	Introduction to data science	MTH1010 or VCE Mathematics Methods or Specialist Mathematics units 3 & 4 with a study score of at least 25	FIT5145	Dr Ian Tan
	FIT1045	Algorithms and programming fundamentals in python	VCE Mathematics Methods or Specialist Mathematics units 3 & 4 with a study score of 25 or MTH1010.	FIT1029, FIT1053	Dr Ganesh
	FIT1047	Introduction to computer systems, networks and security		FIT1031 and FIT2078	Dr Tan Chee Keong
	FIT1055	IT professional practice and ethics	Completion of 12 points of FIT units.	FIT2003, FIT1049	Dr Nik Nailah
	FIT2004	Algorithms and data structures	One of FIT1008, FIT1015, FIT1054, FIT2085 or CSE1303 and 6 points of Level 1 maths.	CSE2304, FIT2009	Dr Lim Wern Han
	FIT2014	Theory of computation	One of FIT1045, FIT1048, FIT1051, FIT1053, ENG1003 or an equivalent introductory programming unit or (FIT1040 and FIT1029), and one of MAT1830, MTH1030, ENG1005 or equivalent.		A/Prof Wong Kok Sheik
	FIT2086	Modelling for data analysis	FIT1045 or FIT1053; and MAT1830; and one of MAT1841, MAT2003, MTH1030 or MTH1035		Ms Prabha
	FIT3171	Databases	One of FIT1045, FIT1048, FIT1051, FIT1053 or ENG1003	FIT2094	Dr Jin Zhe
	FIT3179	Data visualisation	Completion of 24 points at first year.		Mr Tham Weng kee
	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.		Mr Tham Weng kee
	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	FIT1051	Programming fundamentals in java		FIT1002	Dr Lim Mei Kuan
	FIT2099	Object oriented design and implementation	(ENG1003 and ENG1060) or one of FIT1045, FIT1048, FIT1051, FIT1053, FIT1008 or FIT2071	FIT2024	Dr Jasbir Kaur
	FIT2100	Operating systems	One of FIT1047, FIT1031 or ENG1003	FIT2070	Dr Wee Mee Chin
	FIT2101	Software engineering process and management	(ENG1003 and ENG1060) or one of FIT1045, FIT1048, FIT1051 or FIT1053		Ms Kamalashunee
	FIT2102	Programming paradigms	FIT1008 or FIT1054		Dr Ong Huey Fang
	FIT2107	Software quality and testing	(ENG1003 and ENG1060) or one of FIT1045, FIT1048, FIT1051 or FIT1053		Dr Lillian
	FIT3003	Business intelligence and data warehousing**	One of FIT1004 or FIT2094		Dr Soon Lay Ki
	FIT3031	Network security	One of (FIT1047, FIT1031, FIT1019, FIT1005, FIT2008 or ECE2041) and FIT2093		#N/A
	FIT3045	Industry-based learning	Completed 72 credit pts including 60 FIT or MAT credit points. Prerequisite units: One of FIT1045, FIT1053, FIT1048, FIT1051 or ENG1003 and FIT1049 or equivalent.		Dr Ian Tan
	FIT3080	Intelligent systems	FIT2004		Dr Ting Fung Fung
	FIT3143	Parallel computing	FIT2004	FIT4001, CSE4333	Dr Vishnu Monn
	FIT3155	Advanced data structures and algorithms	FIT2004		A/Prof Anuja Dharmaratne
	FIT3175	Usability	One of FIT1045, FIT1048, FIT1051, FIT1053 or equivalent	FIT3063, FIT2016, FIT3033	Ms Goh Kim Nee
	FIT3181	Deep learning**	FIT2086		Dr Lim Chern Hong
	FIT3183	Malicious AI and dark side security**	FIT1045 and FIT2093		Prof Raphael Phan
FIT3199	Industry work experience	Students must have completed a minimum of 96 credit points including FIT1049 or FIT1055 Professional practice.		Dr Lim Mei Kuan	
October semester					
Unit Set	Unit Code	Unit Title	Pre-requisite	Prohibition	Lecturer
Core	FIT1045	Introduction to algorithms and programming		FIT1029, FIT1053	Dr Sarfraz N. Brohi
	FIT1047	Introduction to computer systems, networks and security		FIT1031 and FIT2078	Ms Vasuky
	MAT1830	Discrete mathematics for computer science			Mr Tham Weng Kee
Elective	FIT1051	Programming fundamentals in java		FIT1002	Dr Khaw Hui Ying

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