

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

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| List is Subject to Change | School of Information Technology Malaysia Campus | Last Updated: 27 May 2020 |
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| 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 |
| | 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 |
| | FIT2099 | Object oriented design and implementation | (ENG1003 and ENG1060) or one of FIT1045, FIT1048, FIT1051, FIT1053, FIT1008 or FIT2071 | FIT2024 | Dr Jasbir Kaur |
| | FIT3155 | Advanced data structures and algorithms | FIT2004 | | A/Prof Anuja Dharmaratne |
| | FIT3161 | Computer science project 1 | FIT2004 | | Dr Soon Lay Ki |
| | FIT3162 | Computer science project 2 | FIT3161 | | Dr Vishnu |
| | 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 | 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 |
| | 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 |
| | 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. | BUS3000 | 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 |
| | 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 Computer Science Elective

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

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Last Updated: 17 Sep 2020

| 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 |
| | 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 |
| | FIT2099 | Object oriented design and implementation | (ENG1003 and ENG1060) or one of FIT1045, FIT1048, FIT1051, FIT1053, FIT1008 or FIT2071 | FIT2024 | Dr Jasbir Kaur |
| | 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 |
| | FIT2102 | Programming paradigms | FIT1008 or FIT1054 | | Dr Ong Huey Fang |
| | FIT3143 | Parallel computing** | FIT2004 | FIT4001, CSE4333 | Dr Vishnu Monn |
| | FIT3155 | Advanced data structures and algorithms | FIT2004 | | A/Prof Anuja Dharmaratne |
| | FIT3161 | Computer science project 1 | FIT2004 | | Prof Raphael Phan |
| | FIT3162 | Computer science project 2 | FIT3161 | | Dr Soon Lay Ki |
| | 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 | 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 |
| | FIT1051 | Programming fundamentals in java | | FIT1002 | Dr Lim Mei Kuan |
| | FIT2086 | Modelling for data analysis | FIT1045 or FIT1053; and MAT1830; and one of MAT1841, MAT2003, MTH1030 or MTH1035 | | Ms Prabha |
| | 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 |
| | 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 |
| | 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. | BUS3000 | Dr Ian Tan |
| | FIT3080 | Intelligent systems** | FIT2004 | | Dr Ting Fung Fung |
| | FIT3175 | Usability** | One of FIT1045, FIT1048, FIT1051, FIT1053 or equivalent | FIT3063, FIT2016, FIT3033 | Ms Goh Kim Nee |
| | FIT3179 | Data visualisation | Completion of 24 points at first year. | | Mr Tham Weng kee |
| | 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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