

UNIT OFFERINGS YEAR 2017- Bachelor of Computer Science (2380)

School of Information Technology Malaysia Campus

List is Subject to Change

Last Updated: 1 March 2017

| Semester 1 | | | | | |
|------------|--------------------|---|--|---|-------------------------|
| Unit Set | Unit Code | Unit Title | Pre-requisite | Prohibition | Lecturer |
| Core | FIT1008 | Introduction to computer science | ((One of FIT1040/FIT1045, 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. | 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 |
| | 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 |
| | FIT2004 | Algorithms and data structures | One of FIT1008, FIT1015, FIT2085 or CSE1303 and 6 points of Level 1 mathematics. | CSE2304, FIT2009 | Dr Anuja Dharmaratne |
| | FIT3036 | Computer science project | FIT2004 or FIT3140 | CSE3301, FIT3144 | Dr Reza Zare |
| | FIT3140 | Advanced programming | FIT1008 or FIT2085 | | Dr Chun Yong Chong |
| | 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 |
| | 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 FIT1040, FIT1045, FIT1048, FIT1051 or equivalent introductory programming unit | FIT1004, FIT3171 | Dr Jin Zhe |
| | FIT2099 | Object oriented design and implementation | (ENG1003 and ENG1060) or one of FIT1045, FIT1048, FIT1051, FIT1008 or FIT2071 | FIT2024 | Dr Jasbir Kaur |
| | 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 and (FIT1040 or FIT1002) and FIT2003 | 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) | CSE3314 | Dr Anuja Dharmaratne | |

NOTES: FITxxx : ** 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/>

UNIT OFFERINGS YEAR 2017- Bachelor of Computer Science (2380)

School of Information Technology Malaysia Campus

List is Subject to Change Last Updated: 11 August 2017

| 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 | 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. | FIT1029 | Dr Reza Zare |
| | FIT1047 | Introduction to computer systems, networks and security | | FIT1031 and FIT2078 | Dr Ali Safaa |
| | FIT1049 | IT professional practice | Completion of 12 points of FIT units. | FIT2003 | Dr Nik Nailah |
| | 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 |
| | 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 | Mr Liew Zen Wei |
| | FIT2004 | Algorithms and data structures | One of FIT1008, FIT1015, FIT2085 or CSE1303 and 6 points of Level 1 maths. | CSE2304, FIT2009 | Dr Anuja Dharmaratne |
| FIT2014 | Theory of computation | One of FIT1045, FIT1048, FIT1051, ENG1003 or an equivalent introductory programming unit or (FIT1040 and FIT1029), and one of MAT1830, MTH1030, ENG1005 or equivalent. | CSE2303 | A/Prof Wong Kok Sheik | |
| FIT3036 | Computer science project | FIT2004 or FIT3140 | CSE3301, FIT3144 | Dr Reza Zare | |
| 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 | Mr Teo Bee Guan |
| | FIT2079 | Data visualisation | Completion of 24 points at first year | | Mr Tham Weng Kee |
| | FIT2086 | Modelling for data analysis | FIT1045, MAT1830 and one of MAT1841, MAT2003 or MTH1030 | | Dr Jin Zhe |
| | FIT2100 | Operating systems | One of FIT1047, FIT1031 or ENG1003 | FIT2070 | Chin Kum Yee |
| | FIT2101 | Software engineering process and management | (ENG1003 and ENG1060) or one of FIT1045, FIT1048 or FIT1051 | | Dr Imran Ghani |
| | FIT2102 | Programming paradigms | FIT1008 | | Dr Jasbir Kaur |
| | FIT2107 | Software quality and testing | (ENG1003 and ENG1060) or one of FIT1045, FIT1048 or FIT1051 | FIT4004 | Dr Chong Chun Yong |
| | FIT3003 | Business intelligence and data warehousing | One of FIT1004 or FIT2094 | | Dr Imran Ghani |
| | FIT3045 | Industry-based learning | Completed 72 credit pts and (FIT1040 or FIT1002) and FIT2003 | BUS3000 | Dr Nik Nailah |
| | 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 | Dr Anuja Dharmaratne |
| | 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 | Dr Anuja Dharmaratne |
| | FIT3063 | Human-computer interaction** | One of FIT2001, FIT2027, IMS2805, CSE2200 or equivalent | CSE3030, FIT2016, FIT3033, GCO3814, IMS2403, IMS3470, MMS2403 | Mr Tam Leong Hing |
| | FIT3080 | Intelligent systems ** | FIT2004 or CSE2304 | CSE2309, CSE3309, DGS3691 | Mr Tham Weng Kee |
| FIT3152 | Data analytics** | FIT1006, ETC1000, FIT2086 or equivalent. (For example BUS1100, ETC1010, ETC2010, ETF2211, ETW1000, ETW1010, ETW1102, ETW2111, ETX1100, ETX2111, ETX2121, MAT1097, STA1010 | | Dr Suleman Khan | |

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/>