

# MASTER OF INFORMATION TECHNOLOGY (C6001)

## - 2019 COURSE MAP -

1. Students must complete four foundation units (24 points) from the list below:

### FOUNDATION UNITS

- |  |  |
|--|--|
| <input type="checkbox"/> FIT9131 Programming foundations in Java (S1, S2)<br><input type="checkbox"/> FIT9132 Introduction to databases (S1, S2) | <input type="checkbox"/> FIT9134 Computer architecture and operating systems (S1, S2)<br><input type="checkbox"/> FIT9135 Data communications (S1, S2) |
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2. Students must complete two core units (12 points) from the list below:

### CORE UNITS

- |  |  |
|--|--|
| <input type="checkbox"/> FIT5057 Project management (S1, S2) | <input type="checkbox"/> FIT5136 Software engineering (S1, S2) |
|--|--|

3. Students must complete:

- a) Four units (24 points) from the following list of approved elective units, plus  
 b) Two units (12 points) from either the following list of approved elective units or from level five units offered by the Faculty of Information Technology from level five units offered by any other faculty of the University.

### APPROVED ELECTIVE UNITS (Note: not all units will be offered every year)

- |   |   |
|---|---|
| <input type="checkbox"/> FIT5003 Software security (S1)<br><input type="checkbox"/> FIT5037 Network security (S2)<br><input type="checkbox"/> FIT5046 Mobile and distributed computing systems (S1)<br><input type="checkbox"/> FIT5083 Network infrastructure (S1)<br><input type="checkbox"/> FIT5137 Database analysis and processing (S2)<br><input type="checkbox"/> FIT5139 Advanced distributed and parallel systems (not offered)<br><input type="checkbox"/> FIT5141 Advanced topics in information technology (S2)<br><input type="checkbox"/> FIT5145 Introduction to data science (S1, S2)<br><input type="checkbox"/> FIT5163 Information and computer security (S1, S2)<br><input type="checkbox"/> FIT5171 System validation and verification, quality and standards (S1)<br><input type="checkbox"/> FIT5211 Algorithms and data structures (S1, S2)<br><input type="checkbox"/> FIT5202 Data processing for big data | <input type="checkbox"/> FIT5032 Internet applications development (S2)<br><input type="checkbox"/> FIT5042 Enterprise application development for the web (S2)<br><input type="checkbox"/> FIT5047 Intelligent systems (S1)<br><input type="checkbox"/> FIT5133 Enterprise architecture and management (S2)<br><input type="checkbox"/> FIT5138 Advanced software engineering (S1)<br><input type="checkbox"/> FIT5140 Advanced mobile systems (S2)<br><input type="checkbox"/> FIT5142 Advanced data mining (S2)<br><input type="checkbox"/> FIT5148 Big data management and processing (S1)<br><input type="checkbox"/> FIT5166 Information retrieval systems (S2)<br><input type="checkbox"/> FIT5195 Business intelligence and data warehousing (S1)<br><input type="checkbox"/> FIT5214 Blockchain<br><input type="checkbox"/> FITXXX Discrete optimisation |
|---|---|

4. Students must complete 24 points of either research<sup>†</sup> or industry<sup>‡</sup> units, as follows:

### RESEARCH UNITS<sup>†</sup>

### INDUSTRY UNITS<sup>‡</sup>

- |   |  |
|---|--|
| <input type="checkbox"/> FIT5125 IT research methods (S1, S2)<br><input type="checkbox"/> FIT5126 Masters thesis part 1 (S1, S2)<br><input type="checkbox"/> FIT5127 Masters thesis part 2 (S1, S2)<br><input type="checkbox"/> FIT5128 Masters thesis final (S1, S2) | <input type="checkbox"/> FIT5120 Industry experience studio project ( <b>12 points</b> ) (S1, S2)<br><input type="checkbox"/> FIT5122 Professional practice (S1, S2)<br><input type="checkbox"/> 1 X FIT Level 5 unit (S1, S2) |
|---|--|

<sup>†</sup> **Research component to be completed across final two semesters:** To be eligible to undertake a research unit, you must have successfully completed 24 points of level five FIT-coded units and have achieved an average of 75 per cent across all these units.

<sup>‡</sup> **Industry component to be completed in final semester.**

### **NOTES:**

<b>Credit Points</b>	Unless specified, all units are worth 6 credit points. Master of Information Technology is a total of 96 credit points
<b>Unit Requisites</b>	All pre-requisite and co-requisite requirements must be undertaken in order to be able to enrol into a specific unit
<b>Degree Duration</b>	1, 1.5, or 2 years full-time, 2, 3, or 4 years part-time
<b>Time Limit</b>	Time limit = <b>(Degree Duration x 2) + 2</b> = 4, 5, or 6 years in which to complete this award from the time they first commence. Periods of intermission are counted toward the time limit.
<b>Monash University Handbook</b>	Students should follow the course requirements for the year the course was commenced <a href="http://monash.edu/pubs/2019handbooks/courses/index-byfaculty-it.html">http://monash.edu/pubs/2019handbooks/courses/index-byfaculty-it.html</a>