

Master of Artificial Intelligence C6007) – 2024

Industry experience stream – March intake

Year 1 (48 credit points)

First Semester	FIT9132 (S1, S2) Introduction to databases	FIT9136 (S1, S2) Algorithms and programming foundations in Python	FIT9137 (S1, S2) Introduction to computer architecture and networks	MAT9004 (S1, S2) Mathematical foundations for data science and AI
Second Semester	FIT5047 (S1, S2) Fundamentals of artificial intelligence [FIT9136 and MAT9004]	FIT5125 (S1, S2) IT research methods	FIT5215 (S2) Deep learning [FIT9136 and MAT9004]	FIT5226 (S2) Multi agent systems and collective behaviour [FIT9136 and MAT9004]

Year 2 (48 credit points)

First Semester	FIT5057 (S1, S2) Project management	FIT5201 (S1, S2) Machine learning [MAT9004 and FIT5047]	FIT5216 (S1) Modelling discrete optimisation problems [FIT9136]	FIT5217 (S1) Natural language processing [One of FIT5047, FIT5197, FIT5201, FIT5215] OR FIT5221 (S1) Intelligent image and video analysis [One of FIT5047, FIT5197, FIT5201, FIT5215] OR FIT5222 (S2) Planning and automated reasoning [FIT5047 or FIT5197]
Second Semester	FIT5120 (S1, S2) Industry experience project (12 points) [Completion of 72 points, Co-requisite: FIT5122]		FIT5122 (S1, S2) IT professional practice [Co-requisite: FIT5120 or FIT5127]	Level 5 FIT Elective

Research stream – March intake

Year 1 (48 credit points)

First Semester	FIT9132 (S1, S2) Introduction to databases	FIT9136 (S1, S2) Algorithms and programming foundations in Python	FIT9137 (S1, S2) Introduction to computer architecture and networks	MAT9004 (S1, S2) Mathematical foundations for data science and AI
Second Semester	FIT5047 (S1, S2) Fundamentals of artificial intelligence [FIT9136 and MAT9004]	FIT5125 (S1, S2) IT research methods	FIT5215 (S2) Deep learning [FIT9136 and MAT9004]	FIT5226 (S2) Multi agent systems and collective behaviour [FIT9136 and MAT9004]

Year 2 (48 credit points)

First Semester	FIT5126 (S1, S2) Masters thesis part 1 [FIT5125, Co-requisite: FIT5127]	FIT5201 (S1, S2) Machine learning [MAT9004 and FIT5047]	FIT5216 (S1) Modelling discrete optimisation problems [FIT9136]	FIT5217 (S1) Natural language processing [One of FIT5047, FIT5197, FIT5201, FIT5215] OR FIT5221 (S1) Intelligent image and video analysis [One of FIT5047, FIT5197, FIT5201, FIT5215] OR FIT5222 (S2) Planning and automated reasoning [FIT5047 or FIT5197]
Second Semester	FIT5127 (S1, S2) Masters thesis part 2 [FIT5126]	FIT5128 (S1, S2) Masters thesis final [Co-requisite: FIT5127]	FIT5122 (S1, S2) IT professional practice [Co-requisite: FIT5120 or FIT5127]	FIT5057 (S1, S2) Project management

	FOUNDATION		CORE MASTER'S STUDIES		ADVANCED PRACTICE
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** Research stream requirements

- To be eligible for the research stream, students must have successfully completed 24 points of level five (non-foundation) FIT units and achieved an overall average of at least 75 per cent across all these units and achieved an overall course average of 65%.
- Applications for the Research stream must be submitted by 31 January (for S1 thesis start) or 30 June (for S2 thesis start). Students will be notified when applications open for each intake.
- Research stream information and application: <https://www.monash.edu/it/current-students/enrolment/honours-and-minor-thesis>

Industry experience stream – July intake

Year 1 (24 credit points)

Second Semester	FIT9132 (S1, S2) Introduction to databases	FIT9136 (S1, S2) Algorithms and programming foundations in Python	FIT9137 (S1, S2) Introduction to computer architecture and networks	MAT9004 (S1, S2) Mathematical foundations for data science and AI
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Year 2 (48 credit points)

First Semester	FIT5047 (S1, S2) Fundamentals of artificial intelligence [FIT9136 and MAT9004]	FIT5125 (S1, S2) IT research methods	FIT5216 (S1) Modelling discrete optimisation problems [FIT9136]	FIT5057 (S1, S2) Project management
Second Semester	FIT5201 (S1, S2) Machine learning [MAT9004 and FIT5047]	FIT5215 (S2) Deep learning [FIT9136 and MAT9004]	FIT5226 (S2) Multi agent systems and collective behaviour [FIT9136 and MAT9004]	FIT5217 (S1) Natural language processing [One of FIT5047, FIT5197, FIT5201, FIT5215] OR FIT5221 (S1) Intelligent image and video analysis [One of FIT5047, FIT5197, FIT5201, FIT5215] OR FIT5222 (S2) Planning and automated reasoning [FIT5047 or FIT5197]

Year 3 (24 credit points)

First Semester	FIT5120 (S1, S2) Industry experience project (12 points) [Completion of 72 points, Co-requisite: FIT5122]	FIT5122 (S1, S2) IT professional practice [Co-requisite: FIT5120 or FIT5127]	Level 5 FIT Elective
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Research stream – July intake

Year 1 (24 credit points)

Second Semester	FIT9132 (S1, S2) Introduction to databases	FIT9136 (S1, S2) Algorithms and programming foundations in Python	FIT9137 (S1, S2) Introduction to computer architecture and networks	MAT9004 (S1, S2) Mathematical foundations for data science and AI
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Year 2 (48 credit points)

First Semester	FIT5047 (S1, S2) Fundamentals of artificial intelligence [FIT9136 and MAT9004]	FIT5125 (S1, S2) IT research methods	FIT5057 (S1, S2) Project management	FIT5216 (S1) Modelling discrete optimisation problems [FIT9136]
Second Semester	FIT5126 (S1, S2) Masters thesis part 1 [FIT5125, Co-requisite: FIT5127]	FIT5201 (S1, S2) Machine learning [MAT9004 and FIT5047]	FIT5215 (S2) Deep learning [FIT9136 and MAT9004]	FIT5226 (S2) Multi agent systems and collective behaviour [FIT9136 and MAT9004]

Year 3 (24 credit points)

First Semester	FIT5127 (S1, S2) Masters thesis part 2 [FIT5126]	FIT5128 (S1, S2) Masters thesis final [Co-requisite: FIT5127]	FIT5122 (S1, S2) IT professional practice [Co-requisite: FIT5120 or FIT5127]	FIT5217 (S1) Natural language processing [One of FIT5047, FIT5197, FIT5201, FIT5215] OR FIT5221 (S1) Intelligent image and video analysis [One of FIT5047, FIT5197, FIT5201, FIT5215] OR FIT5222 (S2) Planning and automated reasoning [FIT5047 or FIT5197]
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Notes

Credit points	Unless specified, all units are worth 6 credit points Master of Artificial Intelligence: 16 units x 6cp = Total of 96 credit points
Year Level Requirements	1) A maximum of 24 points of level 9 (foundation) units will be counted; 2) At least 72 points must be completed at level 5.
Unit requisites	All pre-requisite and co-requisite requirements must be undertaken in order to be able to enrol into a specific unit
Duration of degree	2 years full-time, 4 years part-time
Time limit	Time limit = 6 years. Students have six years in which to complete this award from the time they commence. Periods of intermission are counted as part of the six years.
Monash University handbook	Students should follow the course requirements for the year the course was commenced https://handbook.monash.edu/browse/By%20Faculty/FacultyofInformationTechnology