MASTER OF ARTIFICIAL INTELLIGENCE (C6007) – 2021

Industry Experience Stream

Year 1 (48 credit points)

First Semester	FIT9131 Programming foundations in java OR **FIT9132** Introduction to databases	FIT9136 Algorithms and programming foundations in Python	FIT9137 Introduction to computer architecture and networks	MAT9004 Mathematical foundations for data science and AI
Second Semester	FIT5047 Fundamentals of artificial intelligence	FIT5125 IT research methods	FIT5197 Statistical data modelling	**Artificial Intelligence core unit**

Year 2 (48 credit points)

First Semester	**Artificial Intelligence core unit**	**Artificial Intelligence core unit**	**Artificial Intelligence core unit**	**Artificial Intelligence core unit**
Second Semester	FIT5120 Industry experience project (12 points) [Refer to handbook]		FIT5122 IT professional practice [Co-requisite: FIT5120]	**Level 5 FIT Elective**

Research Stream

Year 1 (48 credit points)

First Semester	FIT9131 Programming foundations in java OR **FIT9132** Introduction to databases	FIT9136 Algorithms and programming foundations in Python	FIT9137 Introduction to computer architecture and networks	MAT9004 Mathematical foundations for data science and AI
Second Semester	FIT5047 Fundamentals of artificial intelligence	FIT5125 IT research methods	FIT5197 Statistical data modelling	**Artificial Intelligence core unit**

Year 2 (48 credit points)

First Semester	FIT5126 Masters thesis part 1 [Refer to handbook]	**Artificial Intelligence core unit**	**Artificial Intelligence core unit**	**Artificial Intelligence core unit**
Second Semester	FIT5127 Masters thesis part 2 [FIT5126, Co-requisite: FIT5128]	FIT5128 Masters thesis final [FIT5126, Co-requisite: FIT5127]	**Level 5 FIT Elective**	**Artificial Intelligence core unit**

	FOUNDATION		CORE MASTER'S STUDIES		ADVANCED PRACTICE

Artificial Intelligence core units:

FIT5201 Machine learning	FIT5219 Advanced learning and cognitive systems
FIT5215 Deep learning	FIT5220 Solving discrete optimisation problems
FIT5216 Modelling discrete optimisation problems	FIT5221 Intelligent image and video analysis
FIT5217 Natural language processing	FIT5222 Planning and automated reasoning
FIT5218 Human-centric AI	FIT5226 Multi agent systems and collective behaviour

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