

C6009 Master of Data Science (Indonesia) – 2023 – Suggested course map

Industry Experience option

Year 1 Term 1 (Oct to Nov)	ITI9132 Introduction to databases	ITI9136 Algorithms and programming foundations in Python
Year 1 Term 2 (Jan to Feb)	ITI9137 Introduction to computer architecture and networks	ITI9004 Mathematical foundations for data science and AI
Year 1 Term 3 (May to June)	ITI5125 IT research methods	ITI5147 Data exploration and visualisation
Year 1 Term 4 (July to Sept)	ITI5145 Introduction to data science (Pre: ITI9136)	ITI5197 Statistical data modelling (Pre: ITI9136 & ITI9004)
Year 2 Term 1 (Oct to Nov)	ITI5196 Data wrangling (Pre: ITI9136)	ITI5057 Project Management
Year 2 Term 2 (Jan to Feb)	ITI5122 Professional practice	ITI5129 Enterprise IT security: Planning, operations and management - FIT Level 5 unit
Year 2 Term 3 (May to June)	ITI5120 Social impact project (12 points)	
Year 2 Term 4 (July to Sept)	ITI5149 Applied data analysis – MDS Electives (Pre: ITI5197)	ITI5202 Data processing for big data (Pre: ITI9132 & ITI9136)

A	Foundation skills and knowledge
B	Core masters study
C	Advanced practice

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Minor Thesis option*

Year 1 Term 1 (Oct to Nov)	ITI9132 Introduction to databases	ITI9136 Algorithms and programming foundations in Python
Year 1 Term 2 (Jan to Feb)	ITI9137 Introduction to computer architecture and networks	ITI9004 Mathematical foundations for data science and AI
Year 1 Term 3 (May to June)	ITI5125 IT research methods	ITI5147 Data exploration and visualisation
Year 1 Term 4 (July to Sept)	ITI5145 Introduction to data science (Pre: ITI9136)	ITI5197 Statistical data modelling (Pre: ITI9136 & ITI9004)
Year 2 Term 1 (Oct to Nov)	ITI5196 Data wrangling (Pre: ITI9136)	ITI5057 Project Management
Year 2 Term 2 (Jan to Feb)	ITI5122 Professional practice	ITI5126 Minor thesis part 1
Year 2 Term 3 (May to June)	ITI5127 Masters thesis part 2	ITI5201 Machine learning – Data science electives (Pre: ITI5197)
Year 2 Term 4 (July to Sept)	ITI5128 Masters thesis final	ITI5202 Data processing for big data (Pre: ITI9132 & ITI9136)

*Enrolment in the research units is dependent on available supervisors and projects. Eligible students will be ranked based on their entire academic record and assessed for suitability to undertake the research component of this program. To be eligible for the research option, you must have successfully completed 24 points of level 5 ITI-coded units and have achieved an overall average of at least 75% across all completed ITI-coded level 5 units and have achieved at least a distinction (70%) in ITI5125 IT research methods.

A	Foundation skills and knowledge
B	Core masters study
C	Advanced practice