

Topics may include:

Advanced database concepts (such as XML, Graph, Linked Data, Multidimensional, NoSQL), Big Data integration and cleansing (such as schema mapping, record linkage, data fusion), Database performance (such as query optimization, indexing, partitioning, parallel and distributed processing), Data administration and security, and other related topics.

Assessment:

Students will be advised of all matters relating to summative assessment at the outset of the course. Overall course grades will represent a balanced assessment of achievement in relation to all stated learning outcomes.

Weighting	Nature of assessment	Learning outcomes
40%	Assignment(s): Write technical report(s) on selected data engineering topic(s) and its real-world application	1, 2
60%	Assignment(s): Design and implement a solution that effectively addresses requirements of a given case study	1, 2, 3

Learning and teaching approaches:

Topics may be taught in an integrated manner
Supervisor / student meetings / discussions
Collaborative and / or individual projects
Analysis of written, visual, aural and performance texts

Feedback:

Feedback is sought throughout the course using a range of assessment tools including:
Formal reflection, class forum and end of course survey

Learning resources required:

Specific readings will be provided during the course.