

DATA CENTRE INFRASTRUCTURE

CA1

DEADLINE / WEIGHT: As displayed on Moodle

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Requirements

You are to write a short report (max 4 pages) covering an aspect of data centre infrastructure relevant to a given application area. Your report principally must summarise relevant literature (research articles and industry white papers).

Introduction (10%)

You should introduce your area of research, stating clearly:

- The aspect(s) of data centre infrastructure
- The application area (e.g. hyperscale data centres, edge data centres, military, education, ruggedised/outdoor, mobile/containerised, co-location facilities).

Literature review (60%)

Your literature review *MUST* include all of the following three aspects:

- At least 3 academic papers from IEEE xplore, ACM digital library or other similar source.
- At least 1 whitepaper from an equipment / infrastructure manufacturer or data centre services provider.
- At least 1 standards document (such as Uptime Institute Tiers, ASHRAE or TIA)

Your literature review can and should use additional sources as required. You can treat each article independently (as in an annotated bibliography) or you can write a standard literature review.

It may help to construct one or more diagrams to illustrate certain points. You may not import diagrams from elsewhere.

Conclusions (20%)

You should summarise your conclusions from your research. What are the key points identified?

Arising questions (10%)

Outline 3-4 questions that your research for this review has posed.

Presentation

Presentation requirements:

- Max 4 pages, extra pages will be ignored.
- PDF ONLY, named exactly data_centre_report.pdf.
- Name and student number must appear on the first page and in the header/footer of subsequent pages.
- Pages must be paginated.
- Font must be either Arial, Helvetica, Times or Times New Roman.