

Readings by topic area

So that you can enrich your understanding of the main themes in this course or fill gaps not covered by what I give you, here are the collected “textbook” references associated with each broad topic. The core readings contain most of the key ideas (compare learning objectives).

Note that other references may be provided elsewhere during session.

A. Core readings

1. ***professional engineering ethics***: Martin & Schinzinger, especially ch 2-4 [ch 3 scanned & available online from library]

2. ***leadership***: Northouse, ch 1-6, 9, 10 & 14; ch 11 & 12 for 9510 only (4122 does not do) [ch 10 scanned & available online from library]

B. Further readings

3. ***context of innovation***: Schilling, ch 3 & 4; Beder, ch 4

4. ***strategic direction***: Schilling, ch 6 only relevant to 4122 (9510 does not do)

5. ***sustainability***: Dowling et al, ch 8 [scanned & available online from library]; Beder, ch 9

6. ***leadership v. management***: Kotter, ch 1

7. ***human factor in risks***: Kletz, ch 1 & appendix 2

8. ***ethics & engineering experts (technocrats)***: Beder, ch 10; Evan & Manion, ch 10 responsibilities & ch 14 technology decisions

C. Other related texts

9. ***accidents & organisations***: Perrow, ch 1

10. ***evaluating ethics arguments***: Tavani, ch 3