MCD4280 Engineering Library Session 2019 Research & Referencing

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Objectives for today

• Academic integrity review
• How to develop a search strategy
• Database search
• Start to critically evaluate information
• Find citing & referencing help
iLearn Modules

Located in Moodle
You need to self-enrol.
Set of 6 modules designed to help with your research.

Citing and referencing
Prepare a final report providing a summary of the operating conditions and the energy consumption for the optimized process. Part of the report will also include a research component which requires the group to provide a short review on:

(1) the safety of glow sticks
(2) the environmental impact of glow sticks.

Safety and environmental assessments are important components for Chemical Engineering in the design of any process.
Reviewing Academic Integrity

Academic Integrity

As a student at Monash College, it is important that you are aware of the ethical guidelines that frame your study. Here is an activity to help you get started.

https://forms.gle/LXcizknXkiN6kY637
Reviewing Academic Integrity

Question 1 from video

A student who acts with academic integrity would:

A. Cheat on their exams

B. Cite other people’s work in their assignments

C. Turn in work that is not their own
Question 2 from video

Why do you think academic integrity is important?

A. If you get caught cheating or plagiarising, you will get into a lot of trouble.

B. You may be doing something that is not honest or fair in your studies without knowing it.

C. Cheating or copying other people’s work without giving the author credit is wrong even if you don’t get caught.

D. All of these reasons
Introduction to the Library

Library homepage
- Reading lists
- Databases
- Library guides
- Research & Learning Online

JANE AUSTEN EXHIBITION
Take a step into her world

Monash University
Activity

Use a database and find information on:
The safety features of driverless cars.
Developing a Search Strategy

Brainstorm & identify key terms and concepts:

- driverless
- cars
- safety
Developing a Search Strategy

Brainstorm & identify key terms and concept

- driverless
  - automated
  - autonomous
  - self driving

- cars
  - vehicles
  - automobiles

- safety
  - protection
  - accidents
  - technology
Boolean Searching – AND

AND

AND

“And autonomous vehicles”

safety

AND limits results as both terms must be present
Boolean Searching – OR

OR

OR expands results as only one term must be present

driverless  autonomous
Databases for Engineering

For students at Monash College studying Engineering, we suggest the following databases:

- ProQuest
- Academic Onefile
- Springer
- Google Scholar
Searching in the databases (Proquest)

“autonomous vehicles” OR “driverless cars”
AND
safety OR accidents

377 results when limiting to peer reviewed
Evaluating information – is it Academic?

- Abstract
- 8+ pages in length
- Who wrote it?
- Lots of references
- Appropriate language
Academic vs Non Academic

Academic or scholarly items are peer reviewed.

These can be:

- textbooks (not just your own textbook)
- subject specific books
- academic journal articles
- conference papers.
Academic vs Non Academic

The are lots of resources that are not necessarily academic that are quite useful when starting research.

They include:
• newspapers and magazines
• trade publications
• industry and company reports
• statistics
• company website.

When using these items – it is essential to evaluate them effectively!
Activity

Work in pairs and complete the exercise:

Purpose and appropriateness of information resources
Citing & Referencing

IEEE Citing and Referencing Style

About the IEEE Style

Introduction

The IEEE citation style is now widely used in electrical, electronic, and computing publications. IEEE provides instructions for authors for each type of publication such as journals, magazines, newsletters, and standards.

IEEE is a numbered style with two components:

1. In-text references where references are numbered [1] in the order of appearance in the article. See examples Fig. 1 and Fig. 3.
2. A reference list, displayed at the end of the article which provides full details of all references cited in-text. The references are ordered as they appear in the in-text references (in order of citation, not in alphabetical order). See examples Fig. 2 and Fig. 4.

For further information, please refer to the guidelines on IEEE Documentation Style from the Institute of Electrical and Electronics Engineers site.

In-text references

Using this system, references are numbered in the order in which they are first cited in the text. If the same reference is cited later in the text, the same number is given. For example

"The theory was first put forward in 1987 [1]."

"Scholz [2] has argued that.......

"Several recent studies [1], [3], [4], [15], [16] have suggested that..."
Additional Resources

Additional Help:
- Monash College Library Guide
- MCD iLearn

Librarians:
- Katie Julian
- Samantha Helfrich
- Ines Sincock

Subject Specific:
- Engineering Library Guide
- IEEE Citing & Referencing Guide

Academic Integrity:
- Research & Learning Online – Academic Integrity