MCM and MEPM

Library skills and resources

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and

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Session outcomes

- Develop keyword strategies
- Identify sources of information (databases)
- Search effectively
- Request resources
- Referencing guide
Outline

Presentation on
• Search strategies
• Keywords
• Boolean searching
• Understanding databases
• Other resources
• Managing your searches

Break

Demonstration of
• Accessing resources
• Keyword searching
• AUT Google Scholar
• Scopus
• Other database/s
• Requesting papers – InterLibrary Loan
• Library Guide and Help ...
Keywords or Subject areas

Some broad subject areas:

• Architecture
• Structural design
• Waste
• Technology
• Project management
Boolean searching

- Waste AND Technology
- AND “energy efficiency”
- AND (recycling OR lifecycle)
- AND procure*
  - Procure* = procurement, procure, procures, procured ...

Maybe we also want to add
- AND (construction OR “structural design”)

Diagram:
- Project management
- Architecture
- BIM
- Structural design
- PM for structure design
- Procurement
- Waste impact
- Design for waste mgt
- Recycling
- Lifecycle
- Smart buildings
- Energy efficiency
- Technology
Our search

waste AND technology AND “energy efficiency” AND (recycling OR lifecycle) AND procure*

Maybe we also want to add construction ...

waste AND technology AND “energy efficiency” AND (recycling OR lifecycle) AND procure* AND (construction OR “structural design”)
Where to search

Databases: Be familiar with the databases before you begin your research.

<table>
<thead>
<tr>
<th>General internet searches</th>
<th>Research focused search engines</th>
<th>Multi-disciplinary searching</th>
<th>Subject specific research databases</th>
</tr>
</thead>
<tbody>
<tr>
<td>Example: Google</td>
<td>Example: Google Scholar</td>
<td>Examples: Library Search, Scopus (information from many publishers)</td>
<td>Examples: Business Source Complete (EBSCO), IEEE Xplore</td>
</tr>
</tbody>
</table>

Advantages:
- Easy to use
- Can access ‘grey’ literature e.g. technical reports

Advantages:
- Easy to use
- Access a wider range of research literature

Advantages:
- In-depth coverage across multiple databases
- Full-text
- Scholarly/peer-reviewed

Advantages:
- In-depth coverage
- Subject specific
- Full-text
- Metrics
- Scholarly/peer-reviewed

Disadvantages:
- May not be reliable information

Disadvantages:
- Too many hits, not all relevant
- Have to pay for articles if not accessed through Library

Disadvantages:
- Subscription databases - relies on publishers’ platforms and access

Disadvantages:
- Publisher’s platform and does not include other publishers works
- May have specialist search procedures
Google Scholar (from the Library homepage)
“Search a single, trustworthy and authoritative database saves valuable time that would otherwise be spent cross-checking multiple databases and having to confirm results. Since Scopus delivers the broadest overview of global, interdisciplinary scientific data and literature, across all research fields.”

https://www.elsevier.com/solutions/scopus/how-scopus-works/content
Subject specific databases

Go to your LibGuide
http://aut.ac.nz.libguides.com/engineering_masters

Find the databases that give you the best results for your subject.

• Databases from an organisation e.g. ICE the Institute for Civil Engineers (UK), the American Society of Civil Engineers ...

• BRANZ Find – a database of articles from the Building Research Association of New Zealand

• Subject specific – Business Source Complete, Emerald Insight
Government reports, standards, statistics

On your LibGuide

Engineering Masters - MCM & MEPM: Websites
Guide for Masters in Construction Management & Engineering Project Management

- NZ Building Statistics
  Building and construction activity across New Zealand.
- MBIE Building and Construction
  Ministry of Business Innovation and Employment law and policy.
- MBIE Sector Report Series
  Industry-specific reports.

Organisations and resources - New Zealand & Australia
- ACENZ - The Association of Consulting Engineers New Zealand Inc.
- BRANZ
- Employment Relations, Ministry of Business, Innovation &

Government releases
- Phil Twyford, Minister of Housing and Building
  National Construction Occupations Projections - dynamic graphs and data tables from Ministry of Business, Innovation & Employment and BRANZ

Standards and statistics

Databases

Find by subject

Statistics New Zealand

Standards New Zealand
Tips

• Always check your source for authority and reliability
• Reference correctly
• Use EndNote
• Set up alerts

Different strategies
- too many results or not enough?

<table>
<thead>
<tr>
<th>Narrow</th>
<th>Broaden</th>
<th>Exclude</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Add more terms (using AND)</td>
<td>• Add similar terms (using OR)</td>
<td>• Use proximity operators – check database tips</td>
</tr>
<tr>
<td>• Use proximity searching – check database tips</td>
<td>• Remove phrase searching</td>
<td>• Use not for unwanted concepts</td>
</tr>
<tr>
<td>• Search within specific fields</td>
<td>• Drop less important terms</td>
<td>• Find terms in the subject field</td>
</tr>
<tr>
<td></td>
<td>• Expand your fields to full text search</td>
<td>• Consider different search tools</td>
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<tr>
<td></td>
<td>• Try additional resources</td>
<td></td>
</tr>
<tr>
<td>Database</td>
<td>Search</td>
<td>Number of results</td>
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<tr>
<td>----------------------</td>
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<td></td>
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<td></td>
<td></td>
<td>474</td>
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<tr>
<td>Emerald Insight</td>
<td>waste AND technology AND “energy efficiency” AND (recycling OR lifecycle) AND procure*</td>
<td>637</td>
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</table>
Request information the Library does not have

- Bonus+ for books
- ArticleReach for articles
- InterLibrary Loan Service to request items not available Bonus+ or ArticleReach
Demonstration

Emma

• Library website and resources
• Referencing guides
• Database searching

Your turn!
Help!

Come to other workshops:
https://library.aut.ac.nz/library-workshops

Make an appointment to discuss your research with Anna
anna.matich@aut.ac.nz

Ask a Librarian on the Library website