

# Subject Guides

## Mechanical Engineering

### 1. Getting Started – *What's it all about?*

If you are not sure what your topic is all about, look it up in a **dictionary or encyclopedia**. Start with:

Title	Item Location	Call No.
Dictionary of mechanical engineering	Kejuruteraan	TJ9. N331 1996 r Kejuruteraan
Mechanical engineer's reference book	Kejuruteraan	TJ151. M485 r Kejuruteraan

What's the latest? For a recent overview of your topic try a **handbook** or a **yearbook**. They can have all kinds of facts, figures and precise information. Try:

Title	Item Location	Call No.
Marks' standard handbook for mechanical engineers	Kejuruteraan	TJ151. M3468 r Kejuruteraan
Machinery's handbook	Kejuruteraan	TJ151. B493 2004 r Kejuruteraan
Mechanisms & Mechanical devices sourcebook	Kejuruteraan	TJ181.M486 1991 f Kejuruteraan

### 2. Next Steps – *Start with a book*

Use the **Keyword search** in the Library's catalogue. You can search using words like – **turbines**

You can also browse the Catalogue, or browse the shelves at the following **call numbers** -

TJ1 1570	Mechanical Engineering
TJ170 - 210	Dynamic, Mechanical Movements
TJ212 -225	Control Engineering System, Automatic Machinery
TJ225 – 267.5	Heat Engines, Turbines, Turbo machines
TJ268 - 740	Steam Engineering
TJ836 - 1030	Hydraulic Machinery, Pneumatic Machinery
TJ1350 - 1418	Hoisting and Conveying Machinery
TJ1425 - 1475	Lifting and Pressing Machinery

### 3. Locating up-to-date information – *Subject-specific journal articles*

For recent information, journal articles are often the best sources. Looking through individual journal in the hope of finding relevant material is time-consuming. It is better to use the databases to find articles on your topic. Access to all **databases** is via the Library's Database Page

Start with the following **key databases** for this subject –

Database name	Content Notes
<b>ASME Digital Library</b>	Founded in 1880 as the American Society of Mechanical Engineers, ASME is a not-for-profit professional organization that promotes the art, science and practice of mechanical and multidisciplinary engineering and allied sciences throughout the world. The core values of ASME are rooted in its mission to better enable mechanical

	engineering practitioners to contribute to the well-being of humankind
<b>Engineering Village 2</b>	All field of Engineering Industry Specifications And Standards Patents
<b>Web of Science</b>	World Wide Web database service, to the ISI citation databases: Science citation index expanded, Social sciences citation index and Arts & humanities citation index. ISI Citation Databases are multidisciplinary databases of bibliographic information indexed so that you can search for specific articles by subject, author, databases of bibliographic information indexed so that you can search for specific articles by subject, author, journal, and/or author address. Because the information stored about each article includes the article's cited reference list (often called its bibliography), you can also search the databases for articles that cite a known author or work

There may be other databases for this subject. Check online at <http://lib.usm.my/equip-usm/custom/dbusm.jsp>

Make sure you use the right words for your search. When you are searching, near enough may not be good enough. Ask the library staff for help check a database guide or attend an information skills class.

Once you have found your journal articles, you may need to search the 'Subscribed databases' for the journal title. Use the Title or Keyword search in the Catalogue. Remember that many journals are now available in full text online through subscribed databases. They are also linked directly from within your database search.

#### 4. Exploring further – Selected Internet sites

Start with the following **key internet sites** for this subject –

<a href="http://www.asme.org/">http://www.asme.org/</a>	The American Society of Mechanical Engineers (ASME)
<a href="http://www.ieaust.org.au/">http://www.ieaust.org.au/</a>	The Institution of Engineers, Australia (IEAust)
<a href="http://www.engc.org.uk/">http://www.engc.org.uk/</a>	Engineering Council (UK)
<a href="http://www.imeche.org.uk/">http://www.imeche.org.uk/</a>	The Institution of Mechanical Engineers (UK)
<a href="http://www.eevl.ac.uk/">http://www.eevl.ac.uk/</a>	Edinburgh Engineering Virtual Library (EEVL)
<a href="http://www.efunda.com/home.cfm">http://www.efunda.com/home.cfm</a>	EFunda: The ultimate Online Reference for Engineers
<a href="http://www.cybertown.com/campus.html">http://www.cybertown.com/campus.html</a>	Cybertown Campus
<a href="http://www.uq.edu.au/mecheng/">http://www.uq.edu.au/mecheng/</a>	Division of Mechanical Engineering, UQ

#### 5. Finding specialized information - You may also need these

For some topics you will need to consult specialist information sources.

Australian Standard Online	Available Online – check the Library catalogue	Current set of Australian Standards
British Standards	T50.M294 f Kejuruteraan	British Standards Institution
ASTM	TA404.5.A512 2005 f Kejuruteraan	Annual book of Standards

More questions? – Ask at the Information desk or check the Library's Web Page: at <http://www.lib.usm.my> or <http://library.eng.usm.my/englib/index.html>