

RESEARCH STRATEGIES

I. Define a Topic in Engineering

1. Search for Ideas
2. Narrow or Broaden Your Topic as Needed
3. State Your Topic as a Question
4. Identify the Type of Information Needed

II. Search Databases for Journal Articles, Technical Reports, Conference Proceedings and Standards

1. What are Databases?
 - a. Structure
 - b. Type
 1. Bibliographic
 2. Full-Text
 3. Numeric
 4. Image
 5. Audio
 - c. Coverage
 1. Subject Area
 2. Type of Publication
 - d. Attributes
2. Searching Databases
 - a. Search Strategies
 - b. Use of TSU Database Subscriptions in Engineering

CompendexWeb
MIT Press
ScienceDirect
SpringerLink
Wiley InterScience
**WilsonWeb-Applied Science and
Technology**

3. Locating Print and Electronic Journal Articles

III. Search TSU Online Catalog for Books and Other Resources

1. How to use TSU Online catalog?
 - a. Keyword Search
 - b. Subject search
 - c. Author Search

d. Title Search

e. Search Commands

1. Boolean operators

2. Search Qualifiers

3. Tips

2. Location of Materials

3. Library of Congress Classification System

4. What is a Call Number?

5. How to Read Call Numbers?

6. Electronic Books

IV. Evaluate Research Materials

1. Criteria to Evaluate Research Materials in Engineering

2. Criteria to Evaluate the Web Resources

V. Write the Research Paper

1. Organization of Information

2. Citing Sources and Ethical Issues

3. Guidebooks on Research