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Engineering a Collaborative Information Literacy Partnership

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Engineering a Collaborative Information Literacy Partnership

Jill Dixon & Angelique Jenks-Brown
Binghamton University Libraries



Engineering Program

- **Thomas J. Watson School of Engineering & Applied Sciences**
 - Relatively young school (founded 1983)
 - 2,500 students and 82 faculty
 - Programs in 8 engineering fields
- **Engineering Design Division**
 - Common first-year experience for students
 - Introduction to the engineering disciplines and tools
 - Core competencies: problem solving, decision making, team work, and communications skill

ABET Outcomes Similar to ACRL Information Literacy Outcomes

- An ability to identify, formulate and solve engineering problems
- Recognition of the need for, and ability to engage in life-long learning.
- Knowledge of contemporary issues.
- An ability to use the techniques, skills and modern engineering tools necessary for engineering practice.



Library & Engineering Faculty Collaboration



Course Building Partnership

- **Engineering Communication II**
 - Technical writing, communication skills, and documentation
 - Team-based conceptual engineering design project
- **Librarian involvement**
 - Course packet development
 - Instructional session planning meetings

Teaching Tools: Class Instruction

- **Library instruction session in the classroom**

- Librarians review team project topics
- Demonstrate database searching with similar topics and a handout
- Reiterate instructor advice about research



Teaching Tools: Citations

- **Citation help webpage**

<http://library.binghamton.edu/research/guides/citationhelp.html>

- BU's citation tip sheets
- Purdue University OWL site

- **Bibliographic management tool: RefWorks**

Teaching Tools: Research Guide

LibGuide course research guide

http://libraryguides.binghamton.edu/engineering_design

- Tailored guide to class, not just library instruction session
- Show databases related to engineering
- Links to library resources

Research Guide: Page 1

Binghamton University Libraries Home » Subject Guides Home » Engineering Design Admin Sign In

Engineering Design


Tags: [engineering](#) [engineering_design](#)

Last update: Sep 2nd, 2010 | URL: http://libraryguides.binghamton.edu/engineering_design | [Print/Mobile Guide](#) | [RSS Updates](#) | [SHARE](#) [f](#) [t](#) [e](#) [...](#)

Engineering Design Team Project **Library Resources**

Engineering Design Team Project [Print/Mobile Page](#) This Guide v Go

World Bank

 **The World Bank** carries out projects and provides a wide variety of analytical and advisory services to help meet the development needs of individual countries and the international community. (source: World Bank)

World Bank Report 2010: Development and Climate Change - Report focuses on understanding what climate change means for development policy.

World Bank Projects & Operations - Search for summaries of World Bank Project operational reports.

Getting to Know the World Bank (pdf)

Focus A - The Science of Climate Change (pdf)

Engineering Databases

Academic Search Complete - Scholarly articles from nearly every academic discipline. Also includes newspapers, magazines, images and a visual search interface. [Includes Full Text](#)

Computers & Applied Sciences Complete - Research articles for computing and applied sciences disciplines. [Includes Full Text](#)


ScienceDirect - Scholarly articles for all academic disciplines, including engineering, health, and physical sciences. [Includes Full Text](#)

Engineering Village - Comprehensive interdisciplinary engineering citation database.

Web of Science - Citation database for the Arts & Humanities, Sciences, and Social Sciences.

- [More Engineering Databases](#) -

Subject Librarian



Jill Dixon

Contact Info:
Science Library, Room 102A
(607) 777-3510
[Send Email](#)

Links:
[Profile & Guides](#)

Subjects:
Engineering, Bioengineering, Computer Science, Electrical & Computer Engineering, Engineering Design, Mechanical Engineering, Systems Science & Industrial Engineering

Country Brief Information

CIA World Fact Book - Provides historical, cultural, political, geographical and economic information for 266 world entities.

[Additional Country Information Resources](#)

Related Databases

AGRICOLA - Materials on all aspects of agriculture and forestry. [Includes Full Text](#)

GEOBASE - Worldwide resources on geography, geology, and ecology. [Includes Full Text](#)

Global Issues in Context - International viewpoints on a broad spectrum of global issues, topics and current events. [Includes Full Text](#)

GREENR: Global Reference on the Environment, Energy and Natural Resources - Resources on the physical, social and economic aspects of environmental issues. [Includes Full Text](#)

Medline/Pubmed - Medical/health information from the U.S. National Library of Medicine. [Includes Full Text](#)

Need help?

If I'm offline, please email me or visit [ASK Us](#) to chat with another librarian.

Personal Chat

- Assigned readings
- Resources for Country Brief assignment
- Engineering databases
- Databases related to engineering project

Research Guide: Page 2

- Library resources
- Subject Librarian contact information
- University-related links

The screenshot shows a web page titled "Engineering Design" with a breadcrumb trail: "Binghamton University Libraries Home » Subject Guides Home » Engineering Design". The page includes a search bar, navigation tabs for "Engineering Design Team Project" and "Library Resources", and a sidebar for "Subject Librarian" featuring a portrait of Jill Dixon and her contact information. The main content area lists various resources such as "Ask A Librarian", "Citation Help", and "BU Links". The footer contains copyright information, a "Powered by Springshare" notice, and social media icons.

Binghamton University Libraries Home » Subject Guides Home » Engineering Design Admin Sign In

Engineering Design

Tags: engineering engineering_design

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Engineering Design Team Project **Library Resources**

Library Resources [Print/Mobile Page](#) Search This Guide Go

Library Resources

- [Ask A Librarian](#) - Get your questions answered in person, online or by phone.
- [Citation Help](#) - Help with how to create a reference list.
- [How to Do Library Research](#) - Help getting started on your research.
- [Interlibrary Loan](#) - If we don't own it, we can probably get it.
- [RefWorks](#) - An easy to use citation manager.
- [Web page Checklist](#) - Can you use that website in a paper? This page will help you evaluate it.
- [What is a Scholarly Journal?](#) - how to identify a scholarly journal and a popular magazine

Subject Librarian



Jill Dixon

Contact Info:
Science Library, Room 102A
(607) 777-3510
[Send Email](#)

Links:
[Profile & Guides](#)

Subjects:
Engineering, Bioengineering,
Computer Science, Electrical &
Computer Engineering, Engineering
Design, Mechanical Engineering,
Systems Science & Industrial
Engineering



BU Links

- [Binghamton University](#)
- [Blackboard](#)
- [Engineering Design Division](#)
- [Information Technology Services](#)
- [Thomas J. Watson School of Engineering & Applied Sciences](#)
- [Writing Center](#)

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LibGuide Student Assessment

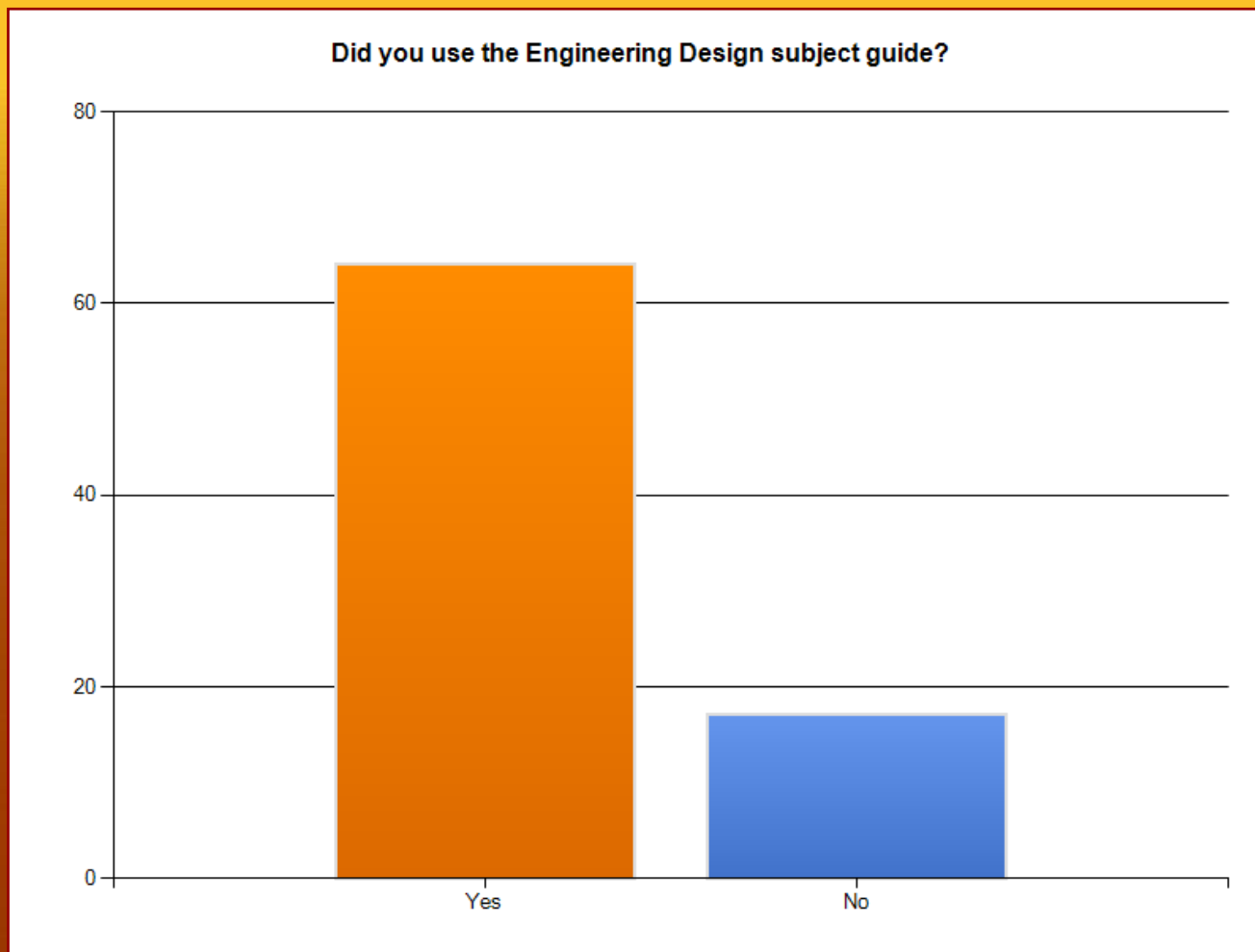
- **Assessment goal:** assess the guide resources and improve for next year's students
- **Guide usage statistics (February-May 2010)**

	February	March	April	May	Total
Project Resources	600	1,378	684	72	2,734
Library Resources	86	120	29	1	236
Total	686	1,498	713	73	2,970

- **Online survey**
 - 8 questions about the resources
 - 81 respondents

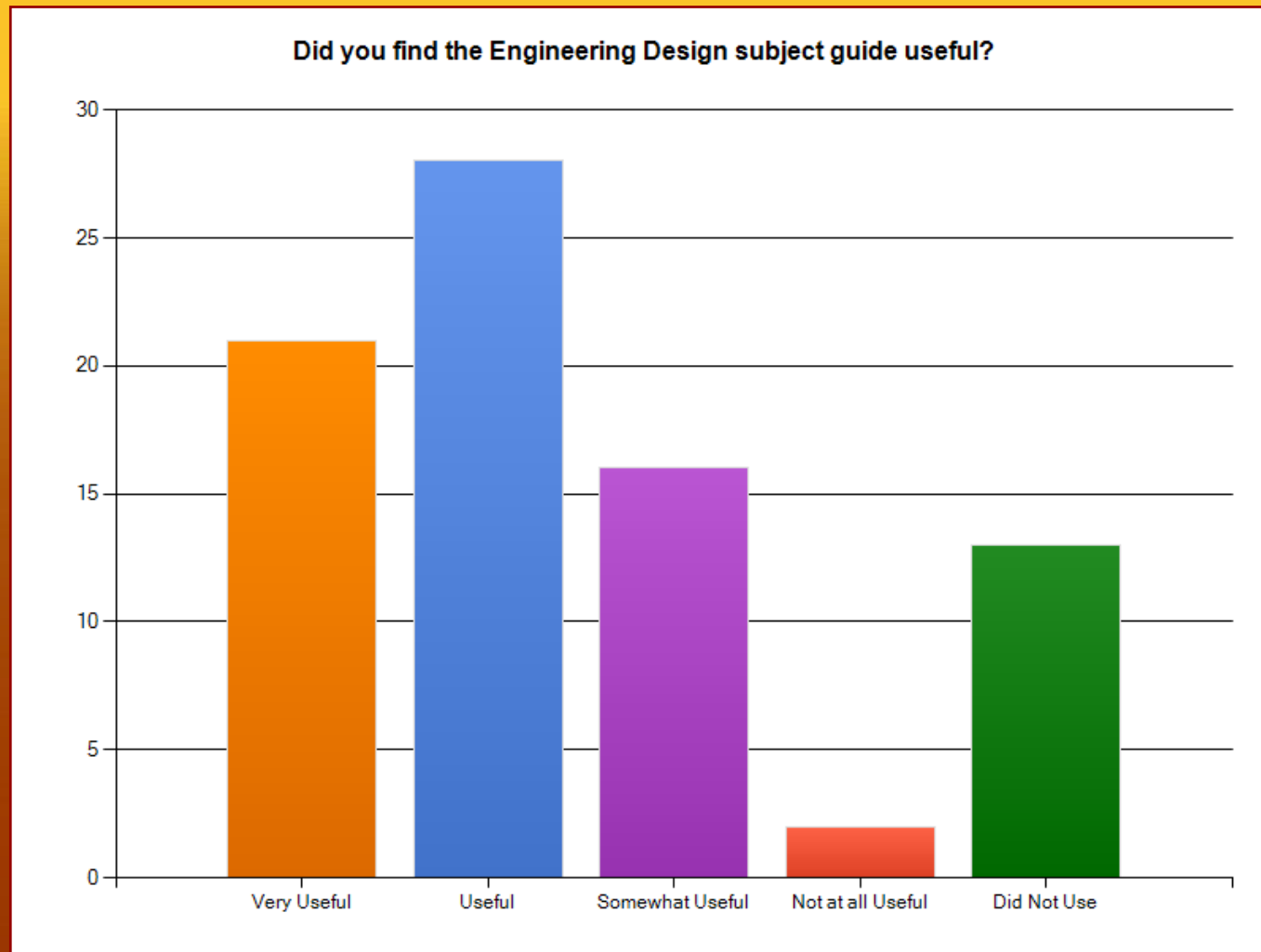
Assessment Results

Did you use the Engineering Design subject guide?



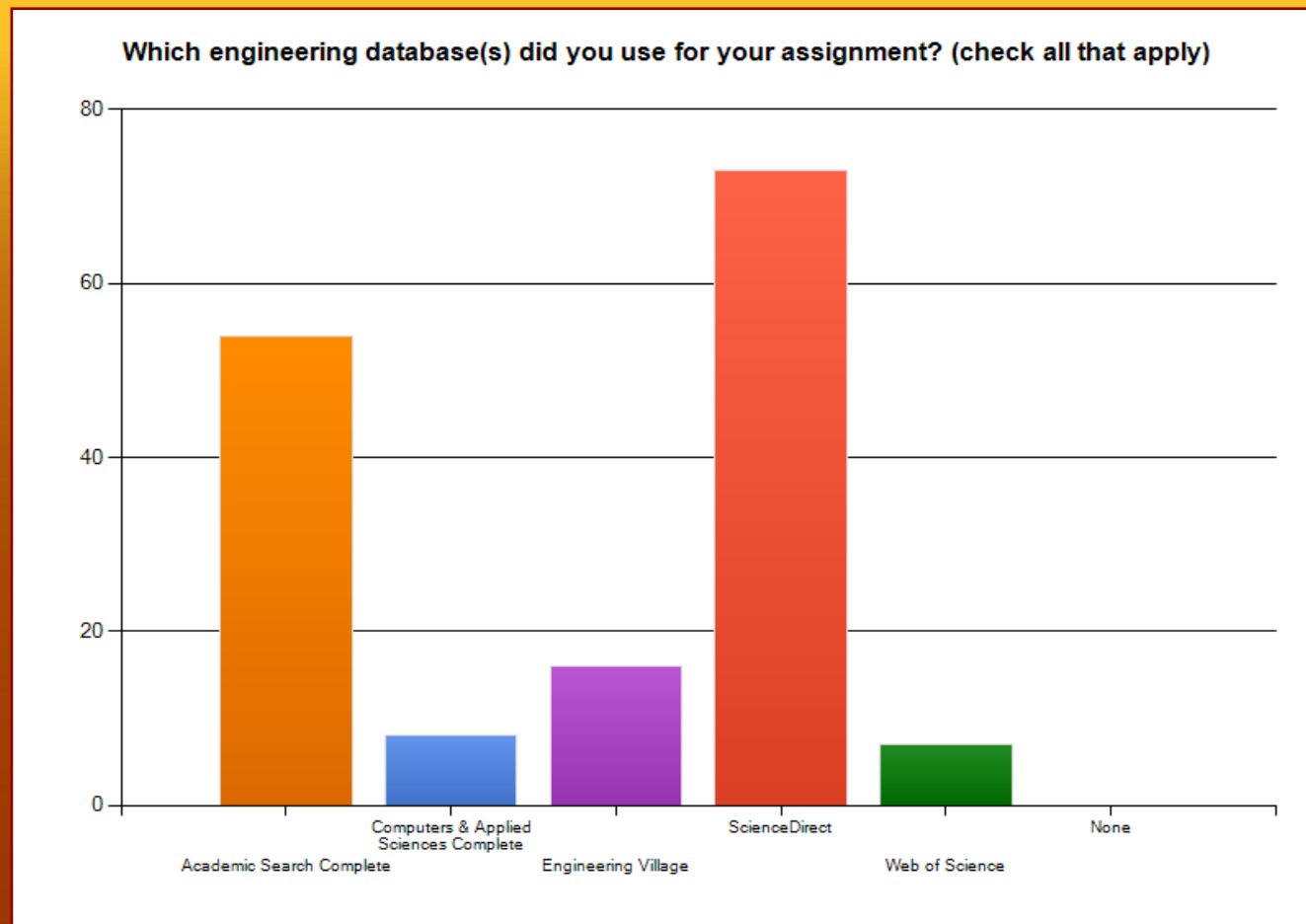
Assessment Results

Did you find the Engineering Design subject guide useful?



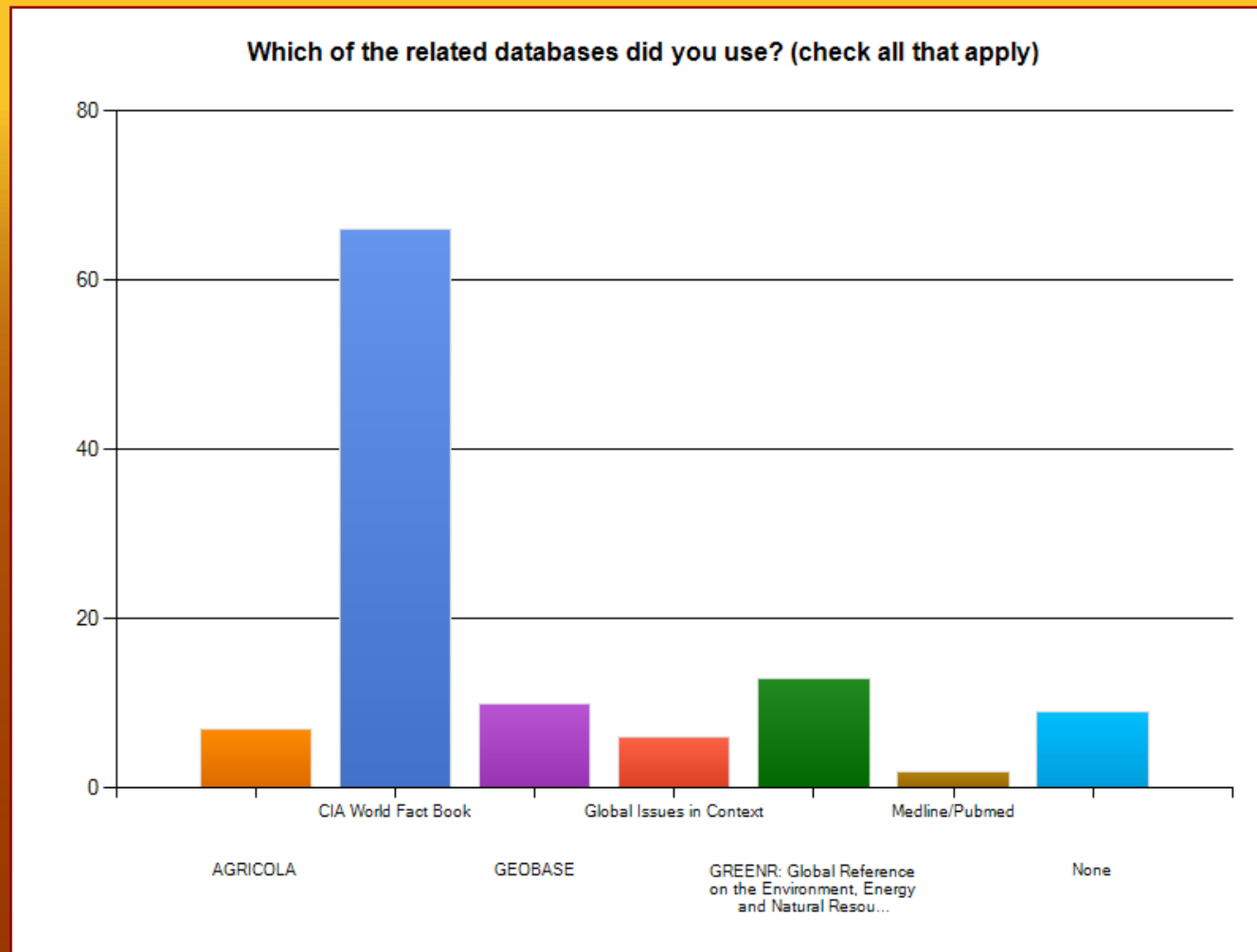
Assessment Results

Which engineering database(s) did you use for your assignment?



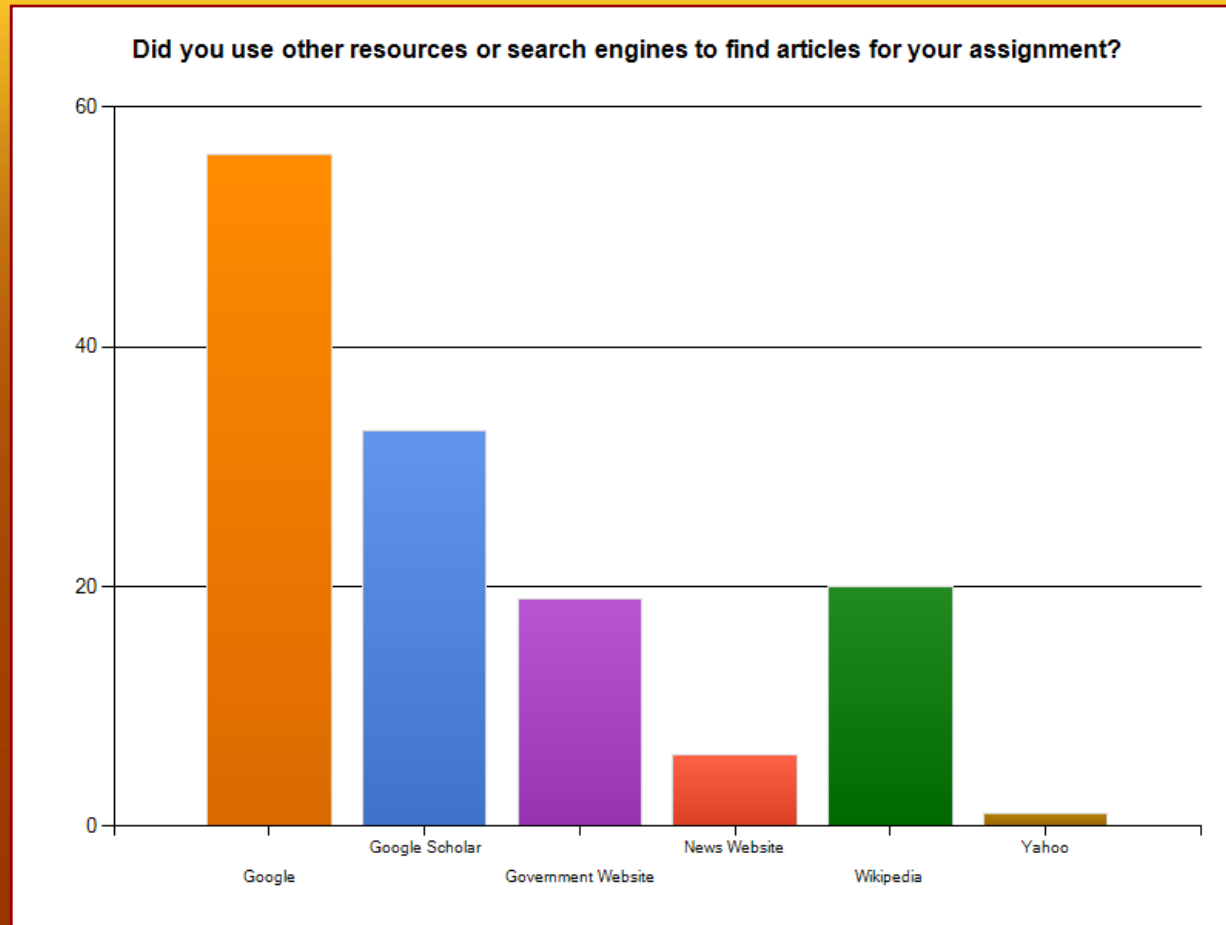
Assessment Results

Which of the related databases did you use?



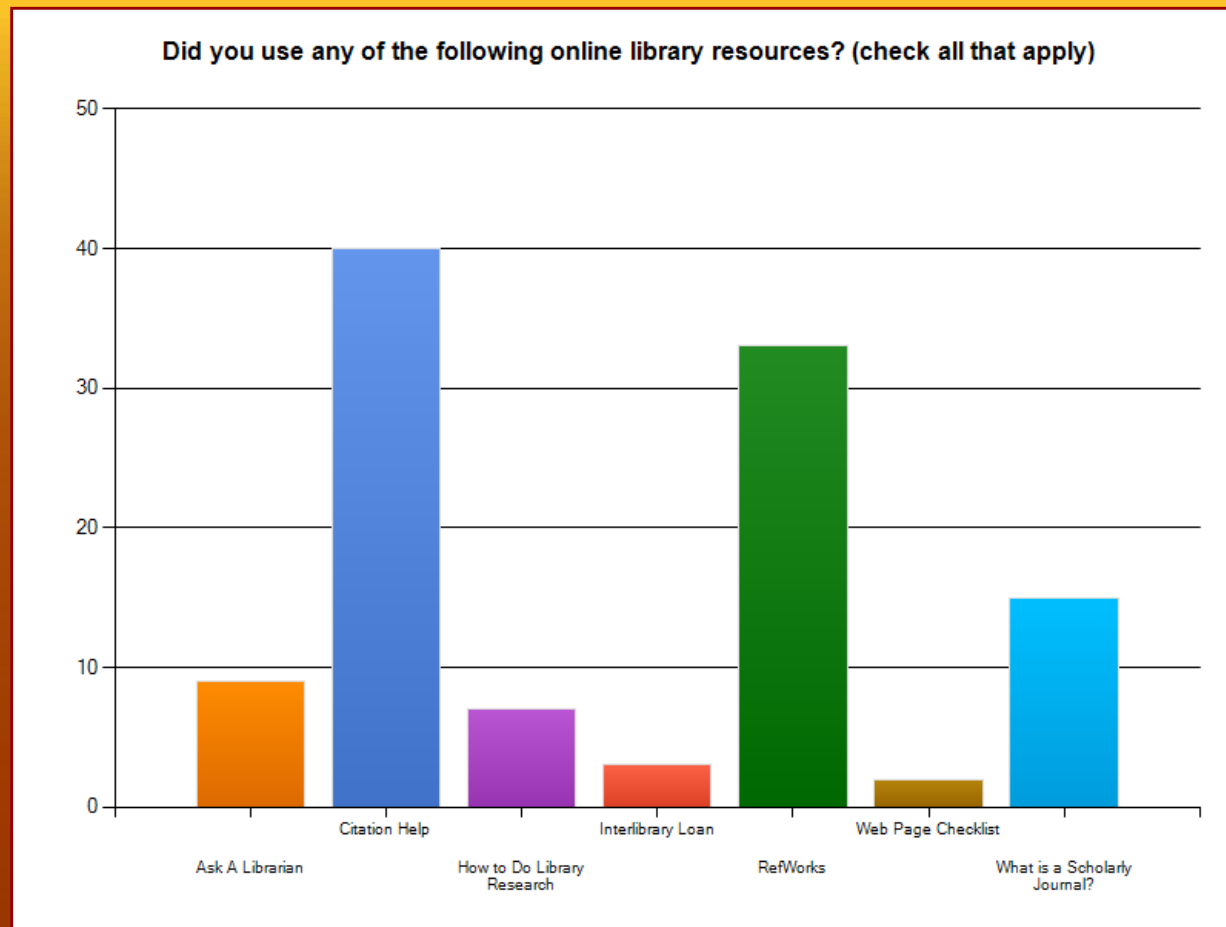
Assessment Results

Did you use other resources or search engines to find articles for your assignment?



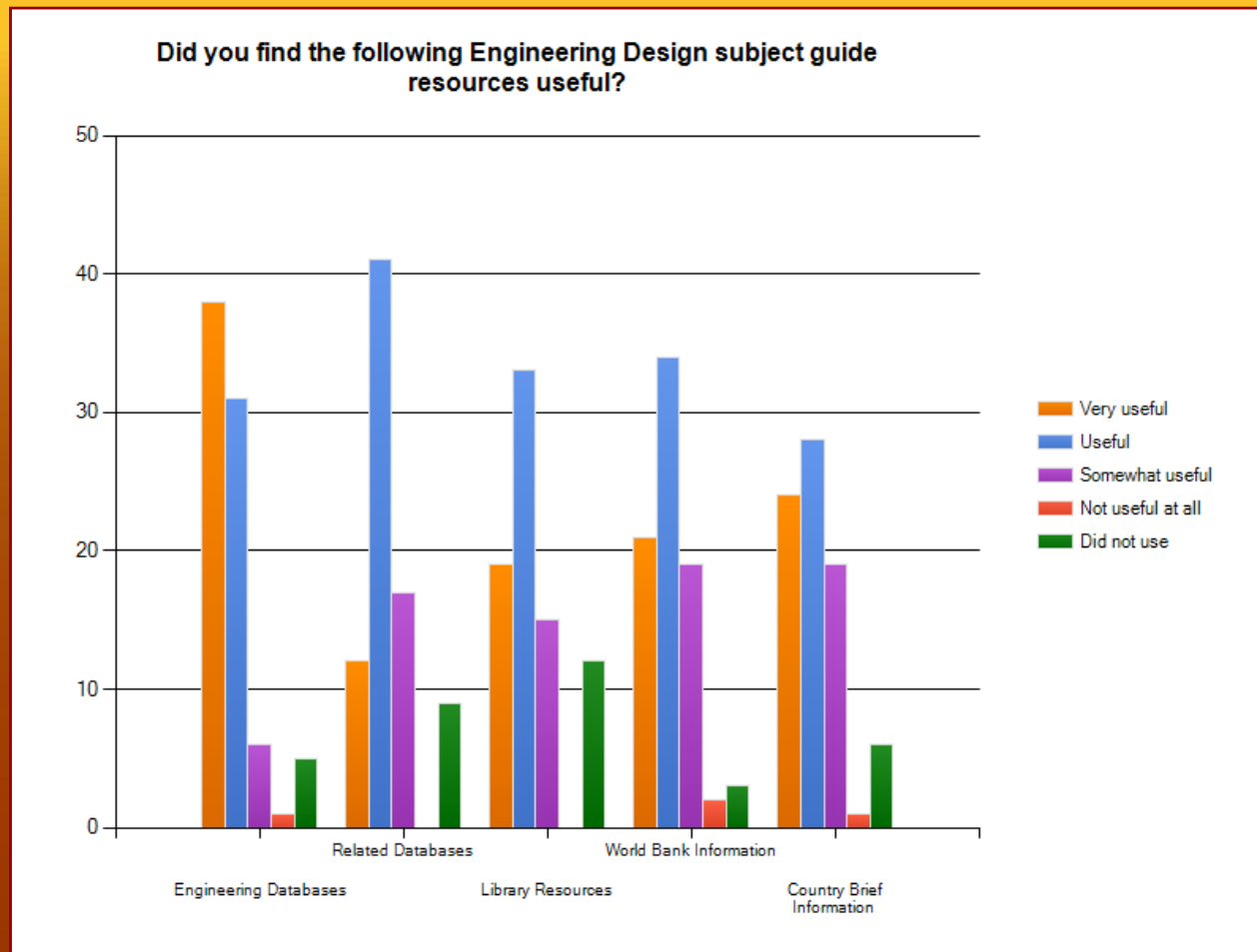
Assessment Results

Did you use any of the following online library resources?



Assessment Results

Did you find the following Engineering Design subject guide resources useful?



Assessment Results

Did you find the following Engineering Design subject guide resources useful?

- “I felt that the web page put up on the library website was very useful. It gave us access to sites that contained the information we needed for our project.”
- “Overall the site was very useful in finding information for researching technologies. It was a little harder to find information for the country brief but it just took a little more searching.”
- “Engineering databases made it much easier to find relevant information.”
- “I used it mostly to find information for research papers related to engineering because those articles are hard to find elsewhere.”

Assessment Results

Do you have any additional comments or suggestions for the subject guide?

- “Your website is very helpful and user-friendly.”
- “It would be better if there were more links to additional databases.”
- “It was a lot of busy work but I guess it needed to be done in order to finish our final report.”

Future Improvements

- More sources for country information
- More full-text databases
- More online resources
- Revise some survey questions
- Add links to library tutorials

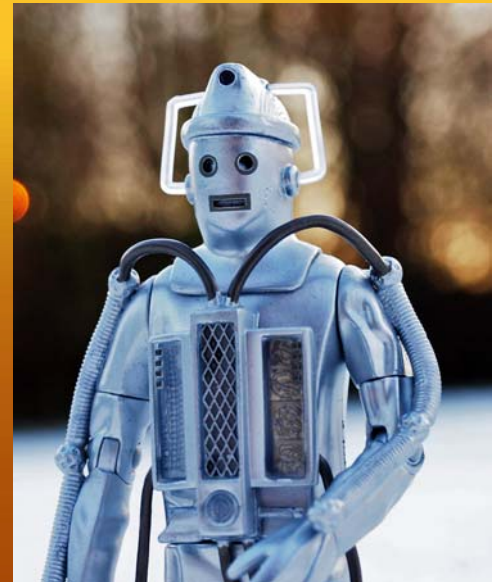


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Thank you!