

# Generative AI & my thesis



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# AI CAN HELP WITH YOUR THESIS MORE THAN YOU THINK!



# Thesis structure

Identify broad areas

Identify research topics

Select lit reviews

Read lit reviews

Propose your idea

Conduct research

Write introduction

Write literature review

Analyze findings

Write thesis

Prepare presentation

# Assignment 1

Take the following courses and obtain certificates from each course:

- [Generative AI และ ChatGPT ทำงานอย่างไร?](#) โดย อาจารย์ ดร.เอกพล ช่วงสุนิช  
[ดาว์นโหลดเอกสารประกอบการบรรยาย](#)
- [ChatGPT ช่วยทำวิจัยได้ไม่ต้องเหนื่อยแทบตาย \(ในทุกขั้นตอน\)](#) โดย รศ. ดร.วิโรจน์  
อรุณมานะกุล [ดาว์นโหลดเอกสารประกอบการบรรยาย](#)
- If you are interested, you may take more courses from [Chula MOOC](#)  
[Snap AI Series](#) (optional)



# Assignment 2

Try it yourself! Pick a topic of your interest. Then, Use ChatGPT3.5 and at least one other tool like ChatGPT4, Microsoft Bing, and Google Bard to compare the performances of different tools.

| Steps of research         | Your own work                                                                                                                | Compare GenAI                                                   |
|---------------------------|------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|
| Identify broad areas      | Pick broad areas of your own interests and list them out.                                                                    | Use various GenAI tools to generate current ideas for thesis.   |
| Identify research topics  | Narrow down the topics on your own.                                                                                          | Have GenAI pick trending topics.                                |
| Selecting lit reviews     | Pick reliable reviews from top sources.                                                                                      | Have GenAI suggest relevant literatures.                        |
| Reading lit reviews       | Summarize the lit reviews on your own.                                                                                       | Have GenAI summarize lit reviews or use agents to discuss them. |
| Propose your idea         | Pick a viable topic for your thesis.                                                                                         | Have GenAI pick a thesis topic.                                 |
| Write an introduction     | Write your own intro including research motivation, research question/statement, research topic, and potential contribution. | Have GenAI write the intro to include the same items.           |
| Write a literature review | Write your own lit reviews from at least 3 papers.                                                                           | Have GenAI write lit reviews from the same papers.              |
| Prepare a presentation    | Prepare your own slides for presentation to make it compelling.                                                              | Use any GenAI tools to generate a presentation slides.          |

# Assignment 3

Write out “How ChatGPT can help me write my thesis” in your own words (choose Thai or English), and prepare a presentation to share your findings in the next class.

You may observe and evaluate the following items (or anything you can think of) :

**Working prompts**

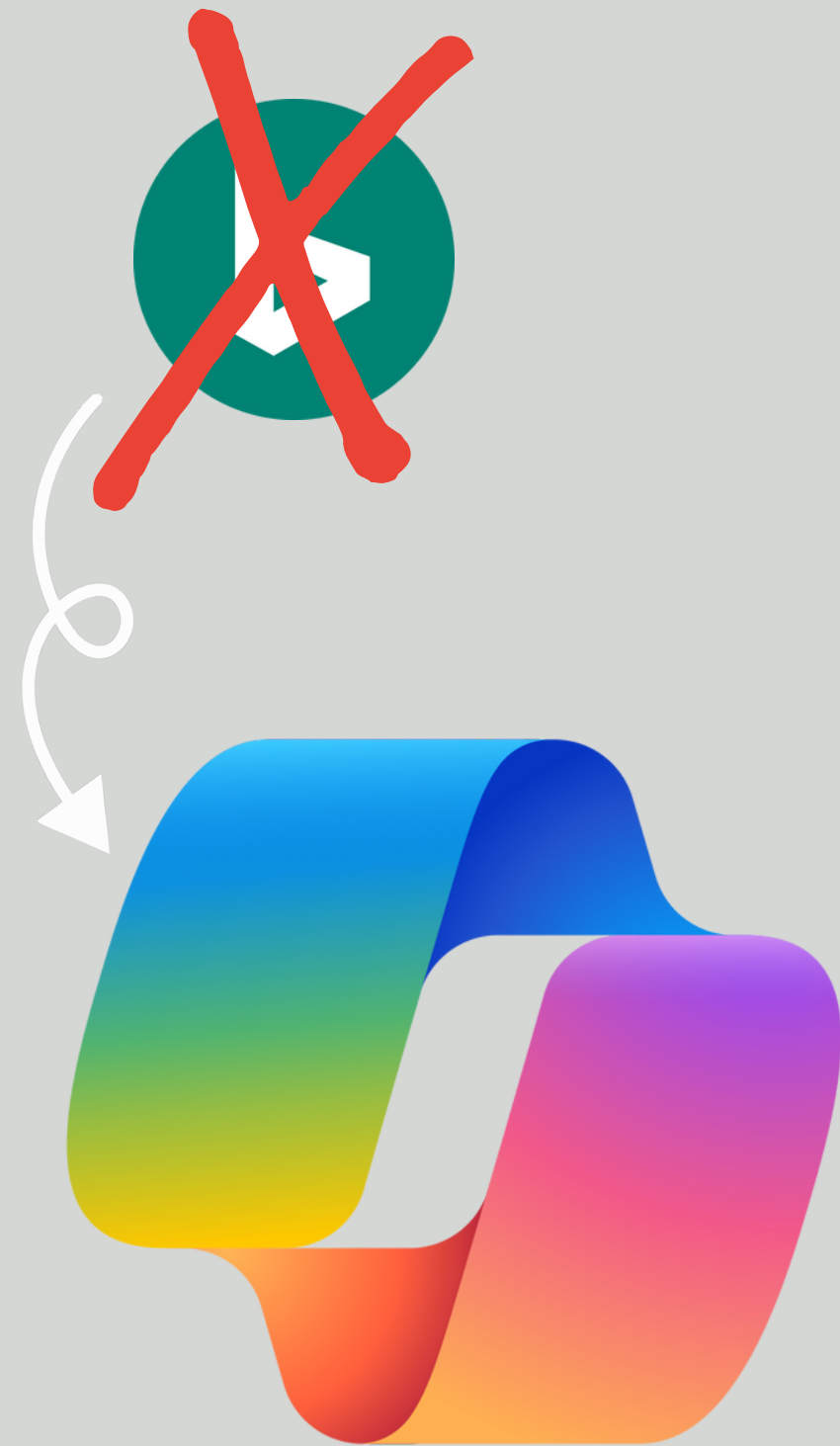
**Benefits of using  
GenAI**

**Time  
consumption**

**Best practices**

**Major flaws**

**Recommendation**



Gemini



| <b>Capability</b>       | <b>ChatGPT Plus</b>                    | <b>Gemini Advanced</b>                       | <b>Copilot Pro</b>              |
|-------------------------|----------------------------------------|----------------------------------------------|---------------------------------|
| <b>AI Model</b>         | GPT-4 or latest GPT variant            | Gemini Ultra, Gemini Pro                     | GPT-4 or latest GPT variant     |
| <b>Website access</b>   | <b>Limited browsing capability</b>     | <b>Comprehensive web browsing</b>            | <b>Limited or no browsing</b>   |
| <b>Coding</b>           | <b>Code generation and explanation</b> | <b>Advanced code generation and analysis</b> | <b>Advanced code assistance</b> |
| <b>Links to apps</b>    | N/A                                    | <b>Gmail, Google Docs, etc.</b>              | <b>Microsoft 365</b>            |
| <b>Image analysis</b>   | Basic capabilities                     | <b>Advanced image analysis</b>               | Basic to advanced capabilities  |
| <b>Image generation</b> | DALL-E 3                               | IMAGEN-2                                     | DALL-E 3                        |
| <b>Limitation</b>       | 40 messages per 3 hours                | <b>No limit</b>                              | <b>No limit</b>                 |
| <b>Price</b>            | \$20/mo                                | \$19.99/mo                                   | \$20/mo                         |





LET'S  
GO