

AI-based Psychological Science Research Methods

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0. Metadata

- ****Course:**** AI-based Psychological Science Research Methods (AI■■ ■■■■ ■■■■■)
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- ****Semester:**** Fall 2025
- ****Institution:**** Seoul National University
- ****Document Type:**** Teaching Archive (Markdown)
- ****Author:**** GPT-5, based on uploaded course materials

1. Course Overview

1.1 Goals & Learning Outcomes

- Understand foundational principles of large language models (LLMs)
- Learn how to apply AI tools throughout the research lifecycle in psychology
- Gain hands-on experience using open-source tools for data analysis and writing
- Develop critical evaluation skills for AI-generated results

1.2 Course Design Philosophy

- Flipped & project-based learning (Theory → Practice → Discussion)
- Integration of AI tools (ChatGPT, Gemini, Claude, Codex)
- Encourage autonomous exploration & reproducible workflows