DDL: 14:00 Thursday of the fourth academic week.

The homework contains 4 questions and the score is 100 in total.

1. (25 marks) Why do you choose this course and what do you expect from taking this course?

2. (25 marks) Find a research paper related to **mathematical modeling and artificial intelligence**. The paper should focus on the use of AI techniques in solving mathematical modeling problems, or the application of mathematical models in AI. Write a study note.

3. (25 marks) Draft a study plan for this course and show me your enthusiasm on modeling.

4. (25 marks) Contribute a Mathematical Modeling example of the book **Mathematical Modeling Case Collection** or **Mathematical Modeling (5th Edition)** using LaTeX.

Hint: You can reasonably use any AI tools to assist you in completing your homework.

Attention: You should send your homework to jzlisustc@gmail.com to keep record.