A1+A2, 2022 Mathematical Economics

Friday 10:25-12:10

October 7, 2022

OYAMA Daisuke

Faculty of Economics University of Tokyo oyama@e.u-tokyo.ac.jp www.oyama.e.u-tokyo.ac.jp

In this course, we study mathematical tools useful for advanced level economics, including important topics from convex analysis, as well as advanced topics from discrete mathematics such as lattices and supermodularity (and matroids if time permits).

Course information will be posted at

http://www.oyama.e.u-tokyo.ac.jp/mathecon22/

Textbook

• R. V. Vohra, Advanced Mathematical Economics, Routledge, 2004.

Topics

- 1. (Things to know)
- 2. Feasibility
- 3. Convex sets
- 4. Linear programming
- 5. (Non-linear programming)
- 6. Fixed points
- 7. Lattices and supermodularity
- 8. Matroids

Grading

Final exam

Office hours

Fridays 14:00-15:30, or by appointment 10th floor, 1012