

Micro III, Fall 2021: Lecture Plan

(Adjustments during the semester are likely. Updates will be posted on Absalon.)

| | Week | Topic | Watch | Read | PS |
|----|--------------|--|---------------------------------|--------------------------|--------------|
| 1 | 36 Sep 7 | Static Games with Complete Information Introduction, normal form games, domination, voting games (-20 min) | | | No ex. class |
| 2 | 37 Sep 14 | Nash equilibrium, Mixed strategies (-20 min) | GTO: 1.3, 1.7, 1.8, 1.9, 2.2 | Gib 1.1, 1.2, 1.3A, B, D | PS 1 |
| 3 | 38 Sep 21 | Bertrand-Cournot, Tragedy of the Commons Dynamic Games with Complete Information <i>perfect</i> information, extensive form (-30 min) | GTO: 2.3, 4.2, 4.3 | Gib 2.1 A-B | PS 2 |
| 4 | 39 Sep 28 | Online Recap: IESDS, NE, normal form, extensive form + hints for A1? | (voluntary recap: GTO 3.2) | -- | PS 3 |
| 5 | 40 Oct 5 | Subgame-Perfect Nash Equilibrium, Dynamic games with <i>imperfect</i> information FINITE HORIZON (-20 min) | GTO: 4.4., 4.8 | Gib 2.2 A, 2.2B, 2.4 | PS 4 |
| 6 | 41 Oct 12 | Sequential bargaining, Ultimatum Game, Repeated games INFINITE HORIZON (-10 min) | GTO: 5.1., 5.2. | Gib 2.1 D, 2.3 A-C | PS 5 |
| xx | 42 | No lecture | | | |
| 7 | 43 Oct 26 | Online Recap: Dynamic games of complete info + hints for A2? | (voluntary recap: GTO 5.6, 5.7) | | PS 6 |
| 8 | 44 Nov 2 | Static Games with Incomplete Information Bayesian Games, Bayesian NE (-20 min) | GTO: 6.3, 6.4 | Gib 3.1, 3.2A | PS 7 |
| 9 | 45 Nov 9 | Auctions (-20 min) | GTO2: 4.1, 4.2 | Gib 3.2B,C | PS 8 |
| 10 | 46 Nov 16 | Dynamic Games with Incomplete Information Perfect Bayesian Equilibrium, Signaling (-15 min) | GTO: 4.10 | Gib 4.1, 4.2 | PS 9 |
| 11 | 47 Nov 23 | Online Recap: incomplete info + hints for A3? | | Gib 4.2 | PS 10 |
| 12 | 48 Nov 30 | When is communication credible: costly signaling, cheap talk | | Gib4.3A | PS 11 |

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|----|--------------|--|----------------------------------|---------|-----------|
| 13 | 49 Dec 7 | Reputation games + Related fields: behavioral, contract theory , perhaps start exam preparation | (voluntary recap: GTO2 4.3, 4.4) | Gib4.3C | PS 12 |
| 14 | 50 Dec 14 | Conclusions: exam, examples, lists of topics... | | | Exam prep |

(*Gib*: “A Primer in Game Theory” by R. Gibbons)

Three mandatory take-home assignments: Week 40 (Oct 4), Week 44 (Nov 1), Week 48 (Nov 30). To be handed in to your class teacher in the beginning of the exercise class. There will be a ‘make-up’ assignment to be handed in on December 13. Check the announcement on Absalon for the rules. **Final exam:** closed book, January 13, 2022.

One-to-one online exam preparation on January 11 and January 12 (all day): an announcement with instructions for how to book a slot will be available on December 15.