MICROECONOMIC THEORY I, PART 1

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This is the first of four parts of the Ph.D microeconomics sequence. We will cover the basic introduction to the consumer theory, firm theory, methods of comparative statics and some decision theory under uncertainty.

The grade will come from an in-class midterm on Tuesday, 22rd October. The class will meet on Tuesdays and Thursdays, 9-11am. We will have a 2h tutorial after the first week, the time and date to be announced. The time and date of the office hours will be announced later.

Below, you can find a more detailed description of the topics together with required readings. The assignment of topics to particular days is very tentative and it may move as we go along.

Date	Topics	Readings
10.09	Choices and preferences. Choice correspondence.	MWG 1
	Weak Axiom of Revealed Preference. Preference	
	representation.	
12.09	Utility theory and classical demand theory.	MWG 3.A-D, 2
	Consumption space. Utility representation. Budget	
	sets. Utility maximization. Walrasian demand	
	correspondence and its properties. Price and wealth	
	effects.	
17.09	Classical demand theory II. Kuhn-Tucker	MWG 3D-3G
	conditions. Properties of indirect utility. Expenditure	
	minimization. Properties of Hicksian demand and	
	expenditure function. Envelope Theorems. Shepherd's	
	Lemma and Roy's identity. Slutsky equation. The Law	
	of Compensated Demand.	

Date	Topics	Readings
19.09	Classical demand theory III. Aggregate demand.	MWG 3H,
	Integrability. Welfare comparisons.	4A-B, 3I
24.09	Firm Theory. Production sets. Profit maximization	MWG 5
	and cost minimization. Properties of Aggregate supply.	
	Le Chatelier Principle.	
26.09	Comparative statics I. Implicit Function Theorem.	lecture notes
	Robust comparative statics. Single-crossing condition.	
	Increasing differences condition.	
1.10	Comparative statics II. Multivariate comparative	lecture notes
	statics. Supermodularity.	
3.10	Introduction to choice under uncertainty.	lecture notes,
	Examples. State-dependent and state-independent	MWG 6.A
	expected utility. Subjective and objective uncertainty.	
	Acts. Axioms of the Anscombe-Aumann Theory.	
8.10	Expected utility theory I : The (Anscombe-Aumann	lecture notes,
	State-Dependent) Expected Uitlity Representation	MWG 6.B, 6.F
	Theorem.	
10.10	Expected utility theory II. State-independent	lecture notes,
	utilty. Non-expected utility theories. Allais, Machina,	MWG 6.B
	and Ellsberg paradoxes. Updating.	
15.10	Expected utility theory III: Risk-aversion.	MWG 6.C-D
	Certainty equivalent. First and second-order stochastic	
	dominance.	
17.10	Monotone statics under uncertainty. Stochastic	lecture notes
	dominance ordering. Comparison of lotteries. Marginal	
	likelihood ration property.	
22.10	Midterm	