

MICRO ECONOMICS : TABLE OF CONTENTS

I. PRODUCER BEHAVIOR

CHAPTER 1: TECHNOLOGY

1. Measurement of inputs and outputs
2. Specification of the technology
3. Activity analysis
4. Monotonic technologies
5. Convex technologies
6. Regular technologies
7. ~~Parametric representation of technology~~
8. The technical rate of substitution
9. The elasticity of substitution
10. Returns to scale
11. Homogeneous and homothetic technologies

CHAPTER 2: PROFIT MAXIMIZATION

1. Profit maximization
2. Difficulties
3. Properties of demand and supply functions
4. Comparatives statics using the first-order conditions
 - Case 1: 1 output, 1 input
 - Case 2: 1 output, n input
5. Comparative statics using algebra

CHAPTER 3: THE PROFIT FUNCTION

1. Properties of the profit function
2. Supply and demand functions from the profit function
3. The envelope theorem

CHAPTER 4: COST MINIMIZATION

1. Formulation of the problem
2. Difficulties
3. Conditional factor demand functions
4. Algebraic approach to cost minimization

CHAPTER 5: COST FUNCTION

1. Definitions
2. The geometry of costs
3. Log-run and short-run cost curves
4. Factor prices and cost functions

II. CONSUMER BEHAVIOR

CHAPTER 1: UTILITY MAXIMIZATION

1. Consumer preferences
2. Consumer behavior
3. Indirect utility function
4. Some important identities

CHAPTER 2: CHOICE

1. Comparative changes
 - Income changes
 - Price changes
2. The Slutsky equation
3. Properties of demand functions
4. Comparatives statics using the first-order conditions
5. The integrability problem
6. Revealed preference

CHAPTER 3: DEMAND

1. Endowments in the budget constraint
2. Homothetic utility functions
3. Aggregating across goods
 - Hicksian separability
 - Functional separability
4. Aggregating across consumers
5. Inverse demand functions
6. Continuity of demand functions

CHAPTER 4: CONSUMERS SURPLUS

1. Compensating and equivalent variation
2. Consumers surplus
3. EV, CV and CS

III. GENERAL EQUILIBRIUM

1. Definitions
2. Excess demand: definitions and properties
3. Competitive allocations
4. Welfare properties of competitive equilibrium
5. Welfare analysis
6. Graphical representation
7. Industry structure in general equilibrium

IV. UNCERTAINTY

1. Lotteries
2. Preferences over lotteries
3. Uniqueness of the expected utility function
4. Notations for expected utility
5. Risk aversion
 - Risk averse and risk loving behavior
 - Example: the demand for insurance
6. Local absolute risk aversion
7. Global absolute risk aversion
8. Relative risk aversion
9. State dependent utility
10. Subjective probability theory
 - Adjustment of subjective expectations to new evidence
 - Evidence against the objective and subjective expected utility model
 - Implausible implication of expected utility and aversion to small risks for aversion to larger risks

V. GAME THEORY

1. Description of a game
2. Economic model of strategic choice
3. Solution concepts
4. Nash equilibrium
5. Interpretation of mixed strategies
6. Repeated games
7. Refinements of Nash equilibrium
8. Dominant strategies
9. Elimination of dominant strategies
10. Sequential games
11. Repeated games and subgame perfection
12. Games with incomplete information

VI. INFORMATION ECONOMICS

1. Hidden characteristics, adverse selection
 - Only one type of consumers
 - Many types of consumers
 - Incomplete information
2. Hidden action, moral hazard
 - Everything is observable
 - Hidden action