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Lecture 1 Basics & Prerequisites

Economics & Society







Economics * Where does the word economics come from? οικονομικά = οίχος + νόμοι * Economics is the study of how humans choose to use the scarce resources, which nature and previous generations have provided * Economics is a way of thinking * Lets consider a non-economic example of choice

L-4

The 2 branches of economics	roduction to economics	Micro vs. Macro	Introduction to e	economics		
 Microeconomics Examines the behavior of individual decision-making units 		* Why economic units and the branches of economics?	ne <u>economy as a whole</u> are analyzed with differ	rent		
Deals with the decisions of the <i>firms</i> , <i>households</i> , <i>market regulators</i> .		* Question:				
 Macroeconomics Examines the behavior of economic aggregates Deals with income, production, employment variables on a national scale. 		 The reason is the <i>fallacy of composition</i> the <i>erroneous belief</i> that what is true for a part is also true for the whole Examples: 				
 Micro or macro?: Price of tuition at SMU National average cost of tuition for universities General price level 		 An economic example: If I receive a higher salar If everybody receives a light 				
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Opportunity Cost

 \star Making a choice automatically entails that we *give up* the rest of the alternatives

- * Opportunity Cost: the benefit lost from a choice over its next best alternative
- * Opportunity costs are *not paid* to anyone but are *still incurred*
- Making a video explicitly costs me 0 dollars because I film on my own:
 YET, it deprives me from the opportunity of working consulting projects
 AND from renting out my equipment.
- * Accountants do not count opportunity cost
- because it is *not actually paid to anyone* and there are *no receipts or invoices* for it * <u>Economists</u> always *take it into account*

L-8

because decisions must always involve ALL benefits and ALL costs

Sophia's freelance enterprise

- ★ Sophia works at a store for \$150 per day
- * Alternatively, she could make and sell *bracelets* for \$15 each:
 Each day, Sophia can make up to 20 bracelets
 Raw materials for each bracelet cost \$8.
- ★ According to an <u>accountant</u>, her *profit* would be: \$15 ⋅ 20 - \$8 ⋅ 20 = \$300 - \$160 = \$140 per day
- ★ According to an economist, her profit should take into account her labor cost: \$15 ⋅ 20 - \$8 ⋅ 20 - \$150 = \$300 - \$160 - \$150 = -\$10 per day

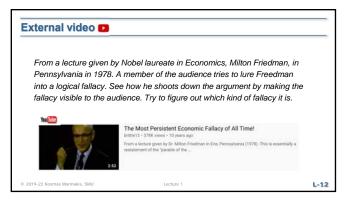
Basic concepts

L-9

- ★ Sophia still makes \$140 per day but this is NOT economic profit it is wage –a payment for her time– under its actual market value (\$150)
- * Profit is what remains after ALL costs have been accounted for

					Basic concepts
The "Ce	teris Parib	us" princip	le		
* "Ceteris	Paribus" is Lat	tin for " <i>everythir</i>	ng else equal"		
* Assume	that we want to	improve the p	erformance of	fa car	
	Engine	Tires	Stickers	Lap time	
	Atmospheric	185/65r15	No	1:52.876	
	Turbo	185/65r15	No	1:32.891	
	Turbo	205/55r16	Lots	1:22.772	
★ Can you	tell if the turbo	modd improve	d the performa	nce?	
* Can you	tell if the <i>tires</i>	modd improved	the performar	ice?	
,			•		
* A variabl variable	0	ceteris paribu	s for calculating	g its effect on a	nother
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Economic actors

Basic concepts

L-13

- * According to economics, society is build by 3 different *basic blocks*:
 - The <u>households</u>: sometimes referred to as "consumers" or "individuals" is the consuming unit of the economy
 - The <u>firms</u>: sometimes referred to as "sellers" or "producers" is the *producing unit* of the economy
 - ► The <u>government</u>: the economic unit that *governs* or *regulates* the economic activity.
- * <u>Sophia</u> is a *firm* as far as we consider her as a producer of bracelets BUT a *household* if we consider her choices as a consumer
- ★ <u>Sony</u> and <u>Tesla</u> are *firms*, the owners of which are *households*
- * <u>MRT</u> or <u>SMU</u> are *firms*, the owner of which is the *government*

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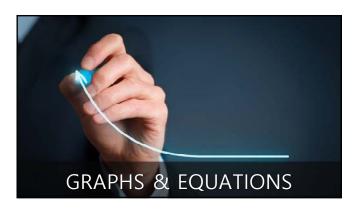
Representative agent

- * In an economy no two economic actors are alike
- The actions of <u>billionaires and colossal corporations</u> affect the economy *more* than <u>everyday individuals and firms</u>
- In economics, we often *simplify* reality by applying the *representative agent* that is, we assume that the economy consists of *copies of the average actor* instead of actors of various importance
- * Then, we *analyze* the decisions of the representative agent and *generalize* to the economy as a whole
- * This approach can be **used only** when the actual dissimilarity of actors **does not affect** the analysis_

L-14

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Basic concepts Utility Average & Marginal values * Assume that this is my *utility* from slices of cheese cake: * When considering decisions by households, we need to rank alternative choices 0 1 2 3 * Economists assign units of utility to alternative choices Slices Total Utility (U) 5 15 24 24 12 the more units, the more preferable the alternative choice * Utility is how Economics deals with preference tries to quantify utility / pleasure / satisfaction / happiness from consuming something * Average utility is the total divided by the number of units * I asked 7 students to assign units of utility to several things: * Marginal utility is the total minus the previous total Pizza Chocolate Sex Bubble tea 160 units 211 units 217 units 1.617 units how much each unit contributes to total utility * The ONLY purpose of units of utility is to *rank* the possible alternatives * Average and marginal values can be used for all series of numbers ▶ We cannot say that is *ten times* better than utility, cost, production, revenue, profit, etc. ► Neither that they would prefer over L-15 L-16







WARNING!

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