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Lecture 1 Basics & Prerequisites

Economics & Society

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Economics			> Introduction to Economics	
* Where does the word economics con	me from?			
	home	laws		
οικονομικά				
	(<u>i</u> kos)	(n <u>o</u> mi)		
* Economics is the study of how hum which nature and previous generat	ans <i>choo</i> tions have	se to use the e provided	e scarce resources,	
★ Contrary to what most people believe, Economics is:				
► less about money, finances and business				
Mostly, is the science that explains i	ntelligent c	lecision makir	<u>10</u> .	
* Let's consider a <i>non-economic</i> example.	<u>mple</u> of ch	noice		
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Opportunity Cost * Making a choice automatically entails that we give up the rest of the alternatives if I *go for a run* on Sunday morning, I *forgo* the pleasure from reading a book ***** Opportunity Cost: the benefit lost from a choice over its **next best** alternative * Opportunity costs are *not paid* to anyone but are *still incurred*:

* Accountants do not count opportunity cost

because it is *not actually paid to anyone* and there are *no receipts or invoices* for it

> Basic notions

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* Economists always take it into account because decisions must always involve ALL benefits and ALL costs

Sophia's real cost 🌗

> Basic notions

- ★ Sophia works at a store for \$150 per day
- * Alternatively, she could make and sell *bracelets*:
 - Sophia can make 20 bracelets per day
 - ▶ Raw materials for each bracelet cost \$8.
- * According to an accountant, the cost per bracelet would be \$8
- * According to an economist, the cost per bracelet should also include her labor $8 + \frac{150}{20} = 15.5$ per bracelet
- * This difference in the definition of cost leads to 2 definitions of **profit**:
 - Accounting profit = Revenues explicit costs
 - Economic profit = Revenues ALL costs

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The "Ceteris Paribus" principle

- * "Ceteris Paribus" is Latin for "everything else equal"
- * Assume that we want to *improve the performance* of a 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* improved the performance?
- * Can you tell if the *tires modd* improved the performance?
- * A variable must change ceteris paribus for calculating its effect on another variable

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Representative agent 4

- * In an economy no two economic actors are alike
- * The actions of billionaires and colossal corporations affect the economy more than everyday individuals and firms
- * 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
- ***** 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

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> Basic notions

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Internal video 🕞

This video will take you through graphs and equations at the level we will need them in this course. If you already have some technical background, you will find this video really easy. If not, it will not be hard to follow till the end.





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WARNING! •

The slides in this handout are created with the intention to serve as visual aid for the audience during the live presentation of the material in the lecture. As such, they are not designed to be standalone reading material and should be used strictly as reference, side by side with notes taken in the lecture. Studying solely from the slides is not recommended and might in some cases mislead those who have not attended the relevant lecture. Little or none tasks in test and exam can be answered solely from the slides.