ECC1000 Semester 2

Week 1: Markets & Trade

Topic 1: Markets & Trade

Introduction to microeconomics, opportunity cost, reasons for trade, absolute & comparative advantage

Markets & Trade

Economics: is the study of how society manages its scarce resources

Microeconomics: focuses on the individual parts of the economy

How households & firms make decisions & how they interact in specific markets

Macroeconomics: looks at the economy as a whole

Economy-wide phenomena, including inflation, unemployment & economic growth

Why Microeconomics

- Microeconomics analyses trade in markets & other institutions
- Trade: is any exchange (for money, for other goods e.g. barter, for satisfaction)
 - o Focus of this course is on trade in markets
- Market: is any group of arms-length trades that are of interest
 - Markets are everywhere
 - They are the most important social institution in the world
 - They are so important that we take them for granted

Three Basic Principles of Individual Decision Making

Marginal v Total Analysis

- Total Analysis: should you do something at all?
- Marginal Analysis: should you do a bit more or a bit less?
- E.g. run a charter flight (refer to ppt. 1)
 - o It costs 20,000 to hire, fuel & crew a plane with 100 seats to Bali & back
- Both total & marginal analysis are important
- A critical skill in business is knowing when & where to use this analysis
- Market prices & sales are determined by marginal decisions (entry & exit decisions are determined by 'total analysis'

Trade Offs

- People face trade-offs
- To get one thing, we usually have to give up another thing

| The efficiency versus equity trade-off | | | |
|---|--|--|--|
| Efficiency: society gets the most that is can | Equity: the benefits of those resources are | | |
| from its scarce resources | distributed fairly among the members of | | |
| | society | | |

Trade

Trade: a voluntary exchange between two or more people for money, other good &/or satisfaction, that makes all participants better off

Benefits of Trade

- More access to more goods & services
- Minimised opportunity cost
- Maximised trade & productivity

Why do People Trade?

- 1. **Different endowments:** if individuals possess different g/s that another individual wants, a trade off can take place
- 2. **Fixed cost of tasks (specialisation):** the cost of specialising in one trade is more productive than individuals investing in doing all tasks themselves
- 3. **Comparative advantage:** the ability of a firm or individual to produce g/s with a lower opportunity cost in comparison to other firms or individuals
- 4. **Absolute advantage:** the ability of a firm or individual to produce g/s more efficiently in comparison to another firm or individual

Opportunity Cost

Opportunity Cost: the next best alternative foregone when a decision is made to allocate resources in a particular way

- The idea of opportunity cost, is to go with making a decision whereby the opportunity cost is minimised
- Lowest opportunity cost means comparative advantage is gained

Q1) If Becky can make make 1kg of potatoes in 6 hours and 1kg of tomatoes in 3 hours and Tom can make 1 kg of potatoes in 8 hours and 1kg of tomatoes in 2 hours. Who has the lowest opportunity cost in each good's production and absolute advantage.

OPPORTUNITY COST:

| | POTATOES | TOMATOES |
|-------|----------|----------|
| ТОМ | 1/2 | 2 |
| BECKY | 1/4 | 4 |

Becky has the lowest opportunity cost of making potatoes at ¼ of a kg of tomatoes, and Tom has the lowest opportunity cost of making tomatoes foregoing 2kg of potatoes.

Comparative Advantage: the ability to produce a g/s with the lowest opportunity cost in relation to a g/s

- If two people have different opportunity costs, then specialisation in production & trade can make them both better off
- If Tom has a lower opportunity cost than Becky when producing one kilogram of tomatoes, then we say that Tom has a comparative advantage in tomato production

- There are gain from trade if each person specialises in production according to comparative advantage
- Note that if Tom has a comparative advantage in producing tomatoes then Becky must have a comparative advantage in producing potatoes

Absolute Advantage: is producing the maximum quantity of g/s than a competitor

- If Becky requires less inputs to produce one kilogram of tomatoes than Tom, then we say that Becky has an absolute advantage in tomato production
- Tom has absolute advantage in making potatoes and Becky has absolute advantage in producing tomatoes
- Absolute advantage has nothing to do with potential gains from trade

ABSOLUTE ADVANTAGE:

| | POTATOES | TOMATOES |
|-------|----------|----------|
| TOM | 1/6 | 1/3 |
| ВЕСКУ | 1/8 | 1/2 |

Specialisation: division of labour separated into focusing all of their efforts into one task, rather than multiple – according to lower opportunity costs in production, can make both parties better off

Q2) If Tom can produce 6kg of potatoes in 1 hour and 3kg of tomatoes in 1 hour, and Becky can produce 3kg of potatoes in 1 hour and 6kg of tomatoes in 1 hour – However then they decide to specialise. Meaning Tom specialises in using all of his time to make potatoes and Becky uses all of her time to make tomatoes.

ORIGINAL PRODUCTION

| | POTATOES | TOMATOES |
|-------|----------|----------|
| ТОМ | 6 | 6 |
| ВЕСКУ | 3 | 3 |
| TOTAL | 9 | 9 |

SPECIALISATION:

| | POTATOES | TOMATOES |
|-------|----------|----------|
| TOM | 12kg | 0 |
| ВЕСКУ | 0 | 12kg |
| TOTAL | 12 | 12 |

By specialising according to opportunity cost, people can produce more. Then by trading they can all be better off.

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Week 2: Markets & Trade

Topic 1: Markets & Trade

 Reasons for trade – comparative advantage, production possibility frontier & role of prices in coordinating trade

Markets & Trade

Relative Prices

Relative Prices: the price of one g/s in comparison to the price of another g/s, expressed in dollar value & is an indicator of one unit of a g/s in relation to another unit of an alternative g/s

Trade is determined by relative prices

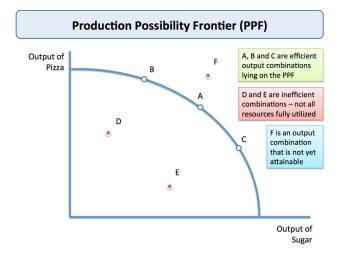
Price Mechanism: how the forces of demand & supple interact to determine prices & quantities of goods & services offered for sale in a perfectly competitive market

By specialising & trading according to comparative advantage individuals - & countries as a whole – can be better off

Production Possibility Frontier

Production Possibility Frontier: given the level of inputs, the frontier shows the level of potential outputs for a person/group/country

- Shows the maximum amount of goods & services we can produce
- Production is technically efficient if we are operating on the PPF
- Autarky: what a person or country chooses to do in the absence of trade



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Week 3: Perfectly Competitive Markets – Supply & Demand

Topic 2: Competitive Market Model

- Demand, supply & equilibrium
- Introduction to competitive market model demand, supply & equilibrium
- Applications of competitive market model

Perfectly Competitive Model

Perfectly Competitive Model: a simplified model of the real world to capture insight into how the world works

- Made on strong assumptions about how people interact
- Assumptions made include many people buying & selling and all the people taking prices as given
- Has two key elements: demand & supply

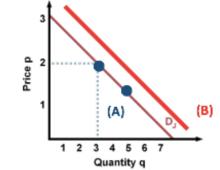
Demand

Demand: a person's demand curve for a product shows, given the price of the product, how much of the product that person would like to buy, holding all other relevant factors fixed

- Usually slopes down
- Can be represented as a table, graph or mathematically

Shifting the Demand Curve (A): occurs when something other than price changes

- Fashion
- Price of substitutes
- Price of compliments
- Interest rates
- Disposable income



Moving the Demand Curve (B): occurs when price changes

Substitutes: two goods are substitutes if a <u>rise</u> in the price of one good leads to a <u>rise</u> in the quantity demanded of the other good (elasticity < 0)

Complements: two goods are complements if a <u>rise</u> in the price of one good leads to a <u>fall</u> in the quantity demanded of the other good (elasticity > 0)

Normal: a good is 'normal' if the quantity a person demands increases as income increases (e.g. luxury cars) (elasticity >0)

Inferior: a good is 'inferior' if the quantity a person demands falls as income increases (e.g. cheap transport) (elasticity <0)

Market Demand: the market demand curve is given by the horizontal sum of the individual demand curves

• For a given price, it tells us the total amount of the product all people would like to buy holding everything else fixed

Supply

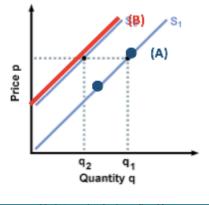
Individual Supply: an individual's supply curve tells us, given the price, how much of the product the person would like to sell, holding everything else constant (e.g. input prices, technology & expectations)

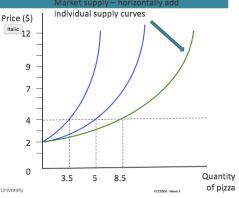
Shifting the Supply Curve (B): occurs when something other than price changes

- Cost of production
- Supply shocks
- Price of other g/s
- Taxes
- Interest rates

Moving the Supply Curve (A): occurs when price changes

Market Supply: horizontally add individual supply curves





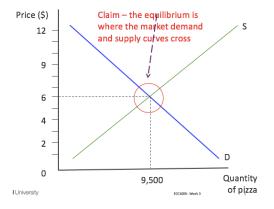
Equilibrium

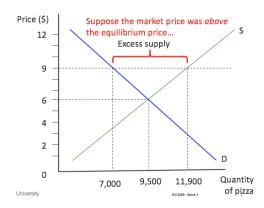
Equilibrium: an economic system is in equilibrium when, given their individual choices & options, each person can achieve his or her planned outcomes & no-one wants to change his or her plans

Equilibrium is where the market demand & supply curves cross

If price is <u>above</u> the equilibrium price, then the quantity that producers would like to sell exceeds the quantity that consumers would like to buy

There is excess supply of pizza, & expect the price to fall

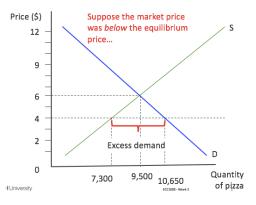




If price is <u>below</u> the equilibrium price, then the quantity that producers would like to sell is less than the quantity that consumers would like to buy

There is excess demand of pizza, & expect the price to rise

Consumer Surplus: when demand is greater than supply **Consumer Shortage:** when supply is greater than demand



Equilibrium Price

- Where market demand intersects market supply (P*)
- At a higher price we have excess supply (& expect price to fall)
- At a lower price we have excess demand (& expect price to rise)
- So we think that equilibrium price is a good predictor of the actual market price WHEN our assumptions are reasonable