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Topic 1: Intr	oduction
positive analysis	descriptive, make a claim how the world is
normative analysis	prescriptive, make a claim how the world ought to be
compar- ative advantage	when comparing opportunity costs of two producers, produce at lower cost than anyone else
opport- unity costs	What it costs someone to produce something is the opportunity cost – the value of what is given up
trade-off	Best allocation of your resources in order to make better decisions.
incentive	Decision making may change, when involved costs and benefits change. People respond to incentives → motivation
model	Models are purposeful representations of (parts of) the economic system and simplify reality in order to improve our understanding of it
macroe- conomics	The study of production, employment, prices and policies on a nationwide scale
microe- conomics	the study of economics in an individual, group, or company level.
marginal change	describe small incremental adjustments to an existing plan of actions
produc- tivity	the amount of goods and services produced from each hour of a workers' life

Topic 2: D	Demand and Supply
market	a group of buyers and sellers of a particular good or service.
compet- itive market	many buyers and sellers. Each has a negligible impact on the market outcome.
price taker	As sellers (and buyers) have no influence on the prices they are said to be price takers.
law of demand	if, other things being equal (ceteris paribus), the price of a good rises, the quantity demanded falls and vice versa; the quantity demanded is negatively related to the price
normal good	a good for which – ceteris paribus – an increase in income leads to an increase in demand.
inferior good	is a good for which – ceteris paribus – an increase in income leads to a decrease in demand.
substi- tutes	two goods for which an increase in the price of one leads to an increase in the demand for the other
comple- ments	two goods for which an increase in the price of one leads to a decrease in the demand for the other.

Topic 2: Demand and Supply (cont)				
law of supply	the quantity supplied of a good rises, if – ceteris paribus – the price of the good rises; the quantity supplied is positively related to the price supply schedule: the relationship between the price of a good and the quantity supplied shown in a table			
individual supply curve	supply curve of an individual firm			
individual demand curve	demand curve of an individual customer or firm			
market supply curve	Sum of all individual supply curves horizontally to obtain the market supply curve			
market demand curve	sum of the individual demand curves horizontally to obtain the market demand curve			
market equili- brium	quantity supplied and demanded are equal. The price that balances supply and demand is called equilibrium price and the related quantity equilibrium quantity			



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Topic 2: Demand and Supply (cont)

price elasticity of demand a measure of how much the quantity demanded of a good responds to a change in the price of that good, computed as the percentage change in quantity demanded divided by the percentage change in price

price elasticity of supply how much does the quantity supplied of a good respond to a change in the price of that good, computed as the percentage change in quantity supplied divided by the percentage change in price.

cross
price
elasticity
of
demand

a measure of how much the quantity demanded of one good responds to a change in the price of another good, computed as the percentage change in quantity demanded for the first good divided by the percentage change in the price of the second good

income elasticity of demand a measure of how much the quantity demanded of a good responds to a change in consumers' income, computed as the percentage change in quantity demanded divided by the percentage change in income.

Topic 2: Demand and Supply (cont)

inelastic Inelastic is an economic term referring to the static quantity of a good or service when its price changes. Inelastic means that when the price goes up, consumers' buying habits stay about the same, and when the price goes down, consumers' buying habits also remain unchanged.// Demand is said to be inelastic if the quantity demanded responds only slightly to changes in the price. unit-ea change in price will cause an

lastic

elastic

demand

equal proportional change in quantity demanded Demand for a good is said to be elastic if the quantity demanded responds substantially to

Topic 3: Market and welfare

tax	to the distribution of a tax
incidence	burden. determined by the
	elasticity of the demand and
	the supply curve
welfare	the study of how the allocation
economics	of resources affects economic
	well-being
willingness	the maximum amount that a
to pay	buyer will pay for the good

changes in the price

Topic 3: Market and welfare (cont)

consumer a buyer's willingness to pay surplus minus the amount the buyer actually pays. measures the benefits to buyers of participating in the market.

producer is the amount a seller is paid surplus for a good minus the seller's cost, and producer surpluses

measure the benefit to sellers
for participating in a market.

total the sum of consumer and
surplus producer surplus

deadweight T

The fall in total surplus that results when a tax (or some other policy) distorts a market

outcome

efficiency If an allocation of resources maximizes total surplus we say that it is an efficient allocation. markets (in equili-

brium) produce the efficient quantity of a good.

deal with the fair distribution of economic prosperity among members of society

Topic 4: Market Failure

equity

regressive high-income taxpayers pay a smaller fraction of their income than do low-income tax-payers proportional tax taxpayers pay the same fraction of income taxpayers pay a ssive tax larger fraction of their income

than do low-income tax-payers

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Topic 4: Market Failure (cont)

negative externality

arises when a person engages in an activity that (directly, not through market prices) negatively influences the wellbeing of another person without this person being compensated for the harm caused by the other person.

positive externality

arises when a person engages in an activity that positively (directly, not through market prices) influences the well-being of another person without this their person having to pay for the benefits received caused by the first persons activity

public good

Neither excludable nor rival. People cannot be prevented from using it and one person's use does not diminish other person's ability of using such a good.

common resource

one person's use of the common resource reduces other person's ability to use it. not excludable but riva

Topic 4: Market Failure (cont)

benefit People should pay taxes based principle

on the benefits they receive from governmental services. This principle tries to make public goods similar to private goods. A person who uses lots of a public goods should pay more for it.

ability-to-pay principle Taxes should be levied on people according to how well these people can carry the burden. The idea behind is that all people should carry an equal burden when it comes to contributing to governmental expenses. (Because of what is conceived as a burden also depends on one's own income / wealth the ability-to-pay principle does not imply a lumpsum tax.)

lumpsum tax

where everybody pays the same amount

Topic 5: Cost of Production

he cost of something is what you opport unity have to give up to get it. cost the market value of the inputs it total cost uses for production of its outputs profit Profit = total revenue - total cost. in words it would be that the profit is the subtraction of total revenue with total costs

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revenue the sale of its output production relationship between quantity function of inputs used to make a good and the quantity of output of that good fixed costs Costs that do not vary with the quantity of output produced costs that vary with the variable quantity of output produced costs marginal the increase in total costs that costs arises from an extra unit of production. MC= Δ TC/ Δ Q average fixed costs divided by the quantity of output fixed costs

Topic 5: Cost of Production (cont)

the amount a firm receives for

total

average variable costs divided by the variable quantity of output costs total costs divided by the average

economies

scale

scale

returns to

total costs quantity of output. ATC(average total costs) = TC(total costs)/Q(quantity)

of scale average total cost falls as the quantity of output increases disecothe property whereby long-run nomies of average total cost rises as the quantity of output increases constant

the property whereby long-run

the property whereby long-run average total cost stays the same as the quantity of output changes

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Topic 6: Mo	onopoly and Oligopoly	Topic 8: Ma	acroeconomics	Topic 9: Stir	nulating economics (cont)
monopoly	A firm is a monopoly if it is the sole seller of a product and if this product has no close substitutes.	Frictional unemployment	the time period between job when a worker is searching for, or transitioning from one job to another	growth policy	Policies that increase the growth of the GDP (e.g. increasing the limit of work hours)
oligopoly	a market structure in which only a few sellers offer identical or similar products.	structural unempl- oyment	Unemployment caused by lack of demand for workers specific type of labour	an economy's human	Human capital is the knowledge, education, training etc, possessed by an
cartel	cooperate in such a way that the output of a particular good is restricted, and prices are driven up	labour produc- tivity potential	(=connectivity) -the amount of output a typical worker turns out in an hour the maximum sustainable	capital research and develo- pment – R&D	individual or population. activities aimed at inventing new products or processes, or improving existing ones
monopo-		GDP	amount that the economy will produce in the long run		
listic compet- ition	many firms sell products that are similar but not identical	cyclical unempl- oyment	unemployment due to recession // the portion of unemployment that is attributable to a decline	formal and informal institutions	Formal institutions are all the legal rules that restrict (or allow) economic and other
price discrimin-	a business practice of selling the same good at different		in the economy's total production.		type of development. This also includes rules and regulations to ensure legal
nash equili- brium	a situation in which economic actors interacting with each other choose their best strategy given the strategies all other	GDP	is the value of all final goods and services produced within a country's border in a specific period of time, usually a year // The market value of all goods		compliance. Informal institutions are norms, and other "unwritten" rules that determine human behaviour.
game	actors have chosen The study of strategic decision		and services newly produced in a country in one year	marginal propensity to consume	is the ratio of changes in consumption relative to changes in disposable income that lead to the change in consumption. The MPC tells us how much more consumers will spend if
theory making by interacting indivi- duals or firms. Best outcome	making by interacting indivi- duals or firms. Best outcome is	nominal GDP	Gross domestic product not adjusted for inflation		
	hard to reach when not cooperating with each other	real GDP	Gross domestic product adjusted for inflation		
dominant strategy	When a firm chooses a strategy to get the most payoff, no matter what the other firm chooses, then it is called Dominant strategy	Topic 9: Stimulating economics			disposable income increases by €1.
		Production function	Shows how much output an economy can produce depending on a varying input (e.g. labour) for given other factors (e.g. capital, technology).		



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Topic 10: Unemployment and/or inflation		Topic 11: Money		Topic 11: Money (cont)	
Recess- ionary gap	The difference between real and potential GDP is called recessionary gap // A situation wherein the real GDP is lower than the potential GDP at the full employment level	Commodity money	This is an object in use as a medium of exchange but which also has a substantial value in alternative (nonmonetary) uses (e.g. cigarettes, cattle,)	expans- ion- ary/co- ntract- ionary monetary	Monetary policy that expands (reduces) the monetary supply normally lowers (increases) interest rates. // Government policies aimed at changing the money supply or interest rates
inflationary gap	The difference between real and potential GDP is called an inflationary gap// the amount by which the actual	fiat money	Fiat money is money that is decreed as such by the government. It is of little value by itself but maintains its value because people have faith that the issuer will stand behind the pieces of printed paper and limit their production	policy	in order to stimulate or slow down the economy.
				Topic 12: Fiscal Policy	
GDP exceeds the full employment GDP	employment GDP			Automatic stabilisers	is a feature of the economy that reduces its sensitivity to
income- expen- diture	With the support of the income-expenditure diagram we are now able to derive the				shocks such as sharp increases or decreases in spending
diagram	aggregate demand curve	fractional reserve	is a system under which bankers keep as reserves	national debt	is the government's total indebtedness at a moment in
stagflation	The consequence is stagflation (inflation while the economy is growing slowly or is in a recession). A period of stagflation is part of the normal aftermath of a period of excessive aggregate demand. when two successive quarters or six months show a decrease in real GDP	banking	only a fraction of the funds they hold on deposit	debt	time. It is the result of previous deficits (and surpluses)
		bank run	A bank run occurs if more people want their money back than what the bank holds as reserves. Then there is the risk that the bank collapses An institution that manages a country's currency, alters money supply, and sets interest rates. It may also act as a lender of last resort to banks	budget surplus	an excess of tax revenue over government spending
				budget deficit	is the amount by which the government's expenditure exceed its receipts during a
recession		central bank			specified period of time, usually a year
depression	a severe recession	barne			
inflation	an increase in a currency supply relative to the number of people using it, resulting in rising prices of goods and services over time				
deflation	a decrease in the general price level of goods and services				



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Topic 12: Fiscal Policy (cont)

structural budget deficit/surplus To seek a better measure of deficit or surplus, the concept of structural budget deficit or surplus has been developed. This hypothetical measure replaces both spending and taxes in the actual budget by estimates of how much the government would be spending and receiving (given current tax rates and expenditure rules) if the economy were operating at some fixed, high-employment level.

Fiscal policy

he way a government adjusts its spending levels and tax rates to monitor and influence a nation's economy → adjusting government spending or taxes

Topic 14: Exchange rate

Currency apprec-iation

an increase in the value of a currency as measured by the amount of foreign currency it can buy

currency depreciation a decrease in the value of a currency as measured by the amount of foreign currency it can buy

devaluation (if a unit of a nation's currency can buy fewer units of foreign currency)

Topic 14: Exchange rate (cont)

revalu- (if a unit of a nation's currency ation can buy more units of foreign currency)

balance The b

The balance of payments deficit is the amount by which the quantity supplied of a country's currency (per year) exceeds the quantity

demanded

balance of payments surplus

payments

deficit

The balance of payments surplus is the amount by which the quantity demanded of a country's currency (per year) exceeds the quantity supplied.

foreign reserves

assets held by a central bank or other monetary authority, usually in various reserve currencies, mostly the United States dollar when a government sets its

exchange rates

fixed

own exchange rate

flexible exchange rates also known as floating
exchange rates is when the
equilibrium is set by supply
and demand



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