F		
Macroeconomics for small screens		
Abbreviations		
11	GDP and circular flow	
11.1	GDP (methods of calculation)	
11.2	Relations between GDP and GNP	
11.3	Circular flow	
12	Employment, business cycle and growth	
12.1	Business cycle	
12.2	Unemployment 1 (types)	
12.3	Unemployment 2 (impacts)	
12.4	Investment demand	
12.5	Aggregate demand (Keynes)	
12.6	Aggregate demand and multiplier	
12.7	Multiplier and accelerator	
13	Money, interest and inflation	
13.1	Money market	
13.2	Inflation 1 (nature)	
13.3	Inflation 2 (types)	
13.4	Inflation 3 (impacts)	
13.5	Deflation (characteristics)	
13.6	Stagflation	
13.7	Crowding-out effect	
14	Fiscal policy and monetary policy	
14.1	Objectives and policies	
14.2	Fiscal policy	
14.3	Laffer curve	
14.4	Monetary policy	

14.5	Liquidity trap
14.6	Phillips curve
14.7	Quantity theory of money
15	Foreign trade
15.1	Exchange rates 1 (flexible)
15.2	Exchange rates 2 (fixed)
15.3	Current account
16	Income distribution
16.1	Lorenz curve 1 (nature, form)
16.2	Lorenz curve 2 (redistribution)
16.3	Gini coefficient
17	Additional items
17.1	Economy and environment
17.2	Labour force
17.3	Paradox of thrift
17.4	Poverty (vicious circle)
17.5	Wealth (virtuous circle)

Abbreviations macro

AD	Aggegate demand
AS	Aggregate supply
С	Consumption
D	Demand
G	Government spending
GDP	Gross domestic product
GNP	Gross national product
	Investment
i or r	Interest rates
Μ	Imports
Q	Quantity
r or i	Interest rates
S	Savings
Т	Taxes
Х	Exports
Y	National income, output

11.1 Gross domestic product (methods of calculation)



Calculation of gross domestic product:

- $\rightarrow Expenditure: C + I + G + (X-M)$
- → Output: Sum of the value added of production
- →Income: Wages + profits + interest + rent

11.2 Relation between GDP and GNP



- NI = Net income from abroad (from labour, from investments)
 If NI > 0, then GDP < GNP (more income from abroad
 - than to abroad) (>>> above)

If NI < 0, then GDP > GNP (less income from abroad than to abroad)

11.3 Circular flow



12.1 Business cycle



12.2 Unemployment 1(types)

- Seasonal unemployment: regular during the year
- Frictional unemployment: when joining the labour force or changing the job
- Structural unemployment: due to changes in technology
- Cyclical unemployment: during recessions

12.3 Unemployment 2 (impacts)

Impacts on the ...

- personal level
 - Frustration
 - Loss of skills



- Loss of output





12.5 Aggregate demand (Keynes)



- AD = C + I + G (M X = 0) - C = a + bY
- I and G are not dependent on Y.
 Y* = Equilibrium national income

12.6 Aggregate demand and multiplier





13.1 Money market



- Motives for demand:
 - Transactions
 - Precaution
 - Speculation

The first two motives depend on the income, the third depends on the interest rate.

Money supply is determined by the central bank.

13.2 Inflation 1 (nature)



Measuring inflation

Consumer Price Index
Producer Price Index
GDP-Deflator

13.3 Inflation 2 (types)



13.4 Inflation 3 (impacts)

(1) General impacts

- Uncertainty
- Speculation

2 Special impacts

- If inflation is anticipated: Cost for avoiding the impacts (time and effort)
- If inflation is not anticipated:
 Redistribution of income and wealth from lenders to borrowers

13.5 Deflation (characteristics)

In times of deflation the price level falls whereas at the same time the value of money rises.



13.6 Stagflation

In times of stagflation inflation and recession occur at the same time.

Example of a supply shock (oil crisis):



13.7 Crowding-out effect

An increase in government borrowing causes a reduction in private spending (C or I) due to an increase in interest rates.



14.1 Objectives and policies



14.2 Fiscal policy

A recession is assumed. By using G and T, AD is changed.



In this case, the fiscal policy is partially effective: Output and price level are increased.
 The fiscal policy is more effect-ive if the AS curve is less steep.



In most cases, the peak will not be at the tax rate of 50 %. Nevertheless, total tax revenue will be low if the tax rate is very low or very high.

14.4 Monetary policy



14.5 Liquidity trap

14.6 Phillips curve

- The Phillips curve describes a negative relationship between inflation and unemployment.
- Since the 1970s this relationship has not been constant any more. The curve is shifted from time to time.

14.7 Quantity theory of money

• M * V = P * Q

- M = Money supply
- V = Velocity of circulation
- P = Price level
- Q = Output
- If V (pattern of payments) and
 Q (full employment) are
 constant, then it can be said:

A rise in M results in a proportional increase in P, e.g. more money, more inflation.

 Classical and monetarist view: Monetary policy just changes the price level (and not other variables).

15.1 Exchange rates 1 (flexible)

The rates are formed by market forces.

Rates during a time period...

15.2 Exchange rates 2 (fixed)

The rates are formed by market forces within narrow margins.

Rates during a time period...

15.3 Current account

The current account records a country's foreign exchange receipts and expenditures and is part of the balance of payments.

* Income from labour and financial capital

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** Payments (without anything in return) (e.g. remittances by foreign workers)

16.1 Lorenz curve 1 (nature, form)

A Lorenz curve displays the income distribution or wealth distribution among households (HH) or persons (P).

16.2 Lorenz curve 2 (redistribution)

If a government redistributes income from rich to poor, e.g. by progressive taxes, the Lorenz curve shifts inwards (to the left).

16.3 Gini coefficient

- The Gini coefficient is a measure of (in)equality in income.
- Gini coefficient =
 Area between diagonal and LC
 Area ABC
 LC = Lorenz curve

17.2 Labour force

The **labour force** consists of **employed** and **unemployed** persons.

(1)
 (2)
 (3)
 (4)
 (5)

leaving labour force getting unemployed getting employed again entering labour force changing the job

17.3 Paradox of thrift

Equilibrium Y*: S = I

More private saving does not result in higher S at Y*2
 Paradox of thrift

