ECON132 تلخیص من إعداد موقع BZU-HUB



محتويات التلخيص 🕕

Chapter 26: An Introduction to Macroeconomics

Chapter 27: Measuring Domestic Output and National Income

Chapter 28: Economic Growth

Chapter 29: Business Cycles, Unemployment and Inflation

Chapter 30: Basic Macroeconomic Relationships **Chapter 31:** The Aggregate Expenditure Model

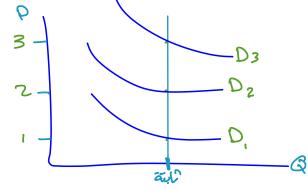
Chapter 32: Aggregate Demands and Aggregate Supply

Chapter 26: An Introduction to Macrocconomies

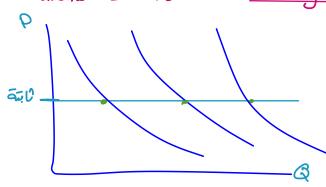
- · Savings: Chrrent output > Chrrent Onsumption
- · Investment: happens when resources are devoted to increase Future output.
- · Demand Shocks (Short-run) الأسعار بطيئة التغير كم أول احي بيضطر الاستجابة إلى تغيرات الإنتاع والعالة ولم التغيرات في الأسعار حمد التغيرات في الأسعار حمد التغيرات في الأسعار



- * Negative Jaman Shock: REDP + inflation + unemployment 1
- * Positive Jamone Shack: RGDPT inflation T unemployment +
- * Negative supply shock: REDP _ inflation of unemployment of
- · Demound Shocks and <u>flexible</u> prices :



- Production is constant, allowed w تقلبان على المدى القصر
- Unemployment -> Constant cutput
- るい · Demand Shocks and Sticky Prices :



- - · production will be adjusted, will be expansive, Cost ?, Inventories +
 - · Demand 1 Production 4 REDP + unemploy ment t

Chapter 27: Measuring Domestic Output and National Income overall performance

- · Production of final-goods approch: The Final price for consumers
- · Value added = Value of final goods Value of intermidiate goods
- The Expenditures Approch:

*Ig:

• DInventory = Production - Sales

· Ig = Value of capital goods + & Inventory

· Gross Investment US Net Investment (In) added Capital replacement capital and added capital



- Net Exports (XW = Exports (X) Imports (M)
- · The Income approach:

- * NI = W+R+I+ Corporate Profil+ proprietors' Income + Takes on P&M
- * Corporal Profit = Corporate Income baxes + dividends + Undistributed Profit
- المواطنيه برا بس بدون الأجانب : P > 0 N P GNP = GDP + NFFI

* Net Domestic Product (NDP)

- · NDP= GDP-D
- · NDP= In + Xn+ C+G
- NI = GDP D SD + NFFI= NDP + NFFI - SD



* Personal Income (PI)

- Price index is = $\frac{NGDP}{RGDP}$ \$ 100%.
 - · Price index for the base year = 100
- Inflation Rate = Price Index (t) Price Index (t-1) > 100%.

 Price Index (t-1)
- Economic Growth = RGDP(t) RGDP(t-1) * 100%.
 RGDP(t-1)

Chapter 28: Economic Growth

• Real GDP Per Capita = Real GDP Population

• Economic Growth = Real GDP (chroat year) - RGDP (4-1) ye 100 %.
RGDP (4-1)

· Growth rate of GDP per Capita =

Growth rate of GDP per Capita (t) - Growth rate of GDP per Capita (t-1)

Growth rate of GDP per Capita (t-1)

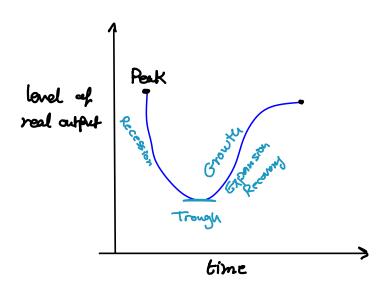
• Years to double = 70

roul GDP annual percentage rate of growth

· Real GDP= hours of work * Labor production



Chapter 29: Business Cycles, Unemployment and Inflation



- · Park: Price T output T
- Recession: GDP 1 output 4 Unemployment?
- Recovery: inFlation, por into
- fluctrations: Just

- · Later Force = employed (E) + Un employed (U)
- · Total population = labor force + not labor force + under 16
- Unemployment rate = Unemployment * 100 %.
- · Participation Rate = labor Force + 100%.

 labor Force not labor Force > population 1 16
- · Okun's law = 2 * GDP
- CPI = Price Index (t) Price Index (t-1) * 100%.

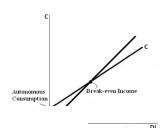
 Price Index (t-1)
- Inflation Rate = $\frac{CPI(t) CPI(t-1)}{CPI(t-1)} \times 100 \%$
- Real Income = Naminal Income
 Price Index
- 1 A Real Income = 1 A Normical Income 1 A price level
- · Nominal Interest = Real Interest rate + IP
 rate



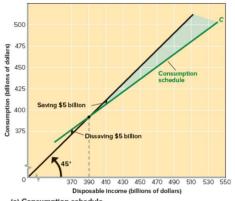
Chapter 30: Basic Macroeconomic Relationship

* The income-consumption and income-saving Relationships

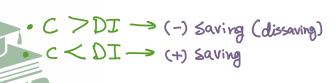
- S = DI -C
- . DI = S+C
- "علاقة طردية"

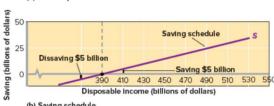


•DI = Zero



(a) Consumption schedule





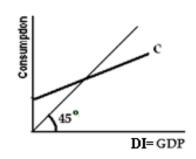
APC = C

- · APS= S
- APC + APS = 1
- · MPC = AC
- · MPS = AS
- · MPC+ MPS= 1

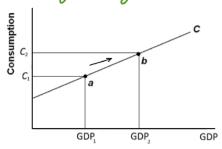
- ·DI + APC + , APS+
- ·DII APCT , APSI
- . Dissavings occures when C>DI
- ·MPC = Slope of the Consumbtion function
- · MPS = slope of the Soving function

* Determinantes of Consumption and Saving

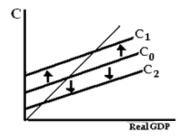
· Switching to the Real GDP



· Changes along Scheduals



· Schedual Shifts



S S₂ S₀ S₁ Real GDP

*Shifters 8

- 1 Wealth • wt→ct, St
- 2 Barrowing -Bt -> Ct, St
- Expectation about Future Prices and Income

 توقع رفع الأسعار حرفع الأسعار حرفع الركود حرفة الركود حرفة
- Y Real Interest Rate

 i + → CT, St

 i + → C+, ST
- 5 Taxation

 •T↑ → C↓ and S↓

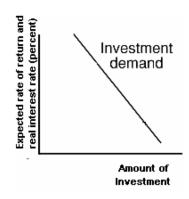
 T↓ → C↑ and S↑



* The interest rate - investment Relationship

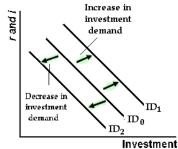
- . The marginal benefit from investment is the expectal role of return (r)
- · The marginal cost is the interest rate (i), cost of borrowing
- · If (r > i) will invest profitable
- If (r <i) will not invest unprofitable

& Investment Domard Curve



& Shifts:

u_Sall, • r 1, investment demand 7 Shifts to the right u_Sall, • i +, investment demand +



* Determinants:

- 1 Acquisition, Maintenance, and Operating Cost

 $r = \frac{Profit}{\cos t}$
- 2) Business Taxes
 - . Tt, Ct, rt, investment demand t
- 3 Technological Change
 - · Tech 1, Ct, r1, investment demand 1
- (4) Stock of Capital goods on Hand
 - كا البضاعة تقلها بالمنزوم نترة ٢٠ ما البضاعة تقلها بالمنزوم نترة
 - م على البخاعة بتناع أول بأول م البخاعة بتناع أول بأول م
- (5) Planned Inventory Changes
 - · Planning to increase inventories Investment demand 1
 - · Planning to decrease inventories Investment demand 1
- 6 Expectations
 - investment demand ↑ Shift to the right
 - 255 €5 Investment demand & Shift to the left

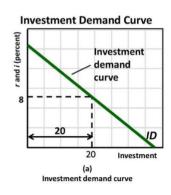
*The Multiplier Effect

- · An economic term, referring to the proportional amount of increase, or decrease, in final income that results from an injection, or withdrawal, of capital
- Multiplier = Change in income
 Change in Spending



Chapter 31: The Aggregate Expenditure Model

*Consumption and Investment Schedules



· Negative Relationship between the amount of investment and interest rate

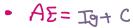
• Ig 7 , r



- Investment Schedual is independent of level of GDP
- · rate of return and the interest rate together determine the amount of investment



* Equilibrium GDP: C + Ig = AE



· At Equilibrium GDP: GDP= AE

• GDP= I,9+C

• if GDP < AF - spending > production

Dinventory= GDP- AE • negative unplanned changes in inventories (Shortage)

Tendency of employment, output and Income (Increase)

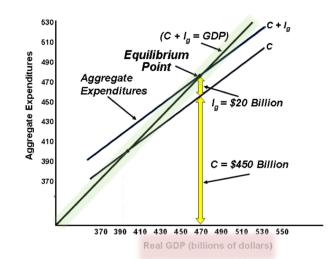
· if GDP > AE - production > spending

△ inventory = GDP-AE · Positive unplanned changes in inventories (Surpha)

· Trendency of employment, output and Income (Decrease) How to adjust that?

> · Cutting back on the rate of production · Toutput + , jobs + , total income +

· GDP = DI



•
$$DI = S + C$$

• MPC =
$$\frac{\Delta C}{\Delta DI}$$

$$\frac{2\Delta}{IQ\Delta} = 29M.$$

* Other Features of Equilibrium GDP

* When GDP=Ig+C, عيرتيم في كان ميترتيم الله على الله على

 $\square S = I_q$

- · Saving is a leakage
- · Investment is an injection
- At Equilibrium: leakage = injection
- · leakage > injection → GDP > AE
- · injection > leakage → ODP < AE



2 No unplanned changes in inventories

- · at equilibrium: GDP-AE=0
- GDP = AE
- · production = Purchases

* Changes in Equilibrium GDP and the Multiplier

* Changes in Equilibrium GDP:

- · Ig ↑ or C↑ → AE ↑ (upward) → Equilibrium GDP ↑
- · Igt or Ct → AE 1 (downward) → Equilibrium GDP 1
- · interest rate (i) T→ investment + , AE + , GDP +
- · rate of return (r) 1 → investment 1, AE 1, GDP 1

*The Multiplier Effect

- . Multiplier effects: a change in a componant of total spending (Iz, C) leads to a larger change in GDP
- · Multiplior (m) = Change in Real GDP initial Change in spanding.

* The Multiplier and the Marginal Propensities

- Multiplier = $\frac{1}{1-\mu pc}$ or $\frac{1}{\mu ps}$
- · MPC T -> mT
- MPS 1 --> m ↓
- decreve 131 ams
- $\triangle GDP = m * \Delta I_{3}$
- · new level of real GDP = initial (± AGDP (calculated)

* Adding International Trade

- · Total Exports = X M
- · X > M Trade Surplus
- · X < M Trade deficit
- $X = M \longrightarrow Trade$ Balance
- · AE = C + Ig + Xn → Private open economy
- · Xn is independent of GDP (Xn Jues not change)
- · + Xn AET, GOP T
- -Xn → AE+, GOP+
- $\Delta GDP = m * \Delta X_n$

*International Economic linkages (Factors Affected Xn)

- الرفاجية في الخارج (Prosperity Abroad Cincreace Poveign income) كانارج · Foreign income 1 -> Exports 1 -> net exports 1 -> real GDP1
- 2 Tariffs old · Tariffs 1 - imports 1 - not exports 1 - rod GDP 1
- 3 Exchange Pates circles the · Depreciation of domestic currency > ×1, MI, X, T, GDPT Esti. Appreciation of domestic currency → XI, MT, XnI, EDPI

* Adding Public Sector

- · private closed economy AE = Ig + C

- Private opened economy → AE = Ig + C + Xn mixed closed economy → AE = Ig + C + G mixed opened economy → AE = Ig + C + B + Xn
- · GDP changed G obes not change

* Government purchases and Equilibrium GDP

- · G↑ → GDP ↑ (AGDP= m * AG)
- · GI -> GDP +

*Taxation and Equilibrium GDP

- · Lump Sum tax: is a tax of a constant amount or a tax Yielding the Same amount of tax revenue at each Level of
- · T↑ → C + by (MPC*T), S + by (MPS*T)
- · TI → CT, AET, equilibrium GDPT
- · Tax multiplier = MPC'
- · GDP = mt * DT
- · DI=GDP-T



* Injections, Leakages and unplanned Changes in inventories

- · At equilibrium GDP: · Leakage = injection $(S+M+T)=(I_S+G+X)$
 - · no unplanned changes in inventories (GDP=AE)

* Balance Budget multiplier

- · If GT and TT by some amount GDPT same amount
- ·If Grand To by some amount GDP same amount
- · The balance budget multiplier = 1

* Equilibrium Vs. Full Employment GDP

· Equilibrium GDP and Full omployment GDP is not the some

* Recessionary Expenditure Gap and Lavill Egill alla
IF at full employment, GDP > AF Reccessionary Gap
The 512e at the gap = GDP-AE Causes Cyclical unemployment

- · Kenyes' Solution to a Reccessionary Gap:
 - II Increase government sponding
 - 2 Lower Taxes

*Inflationary Expenditure Gap

If at full employment, GDP < AE — Inflationary Gap

The size at the gap = AE-GDP

Causes domand pull inflation

Multiplier = ΔGDP
 MPC = ΔAΕ
 MPC = ΔAΕ
 Slope of the Consumption function = Slope of the AΕ

Chapter 32: Aggregate Domand and Aggregate Supply

* Aggregate Demand

- · Real output (Real GDP) that payers Collectively desire to purchase at each possible price level
- The relationship between GDP demanded and price lovel is inverse PT, GDP1 PJ, GDP1

* Why the AD is downward Slope?

- I Real Bolances Effect
 PT, purchasing power of assets t, Ct, GDP1
- 2 Interest-Rate Effect
 Pt, money domand t, interest rate t, Investment t, GDP+
- 3 Foreign Purchases Effect
 Pt, X+ and Mt, Xn +, GDP+



* Change in Aggregate Demand

△GDP = m * △spending

* Deferminants of Aggregate Demand: Factors that shift the Aggregate demand conve

- 1 Change in Consumer Consumption (C)
 - . CT, GDPT, AD shift to the right
 - · CI, GDPI, AD Shift to the left
 - * Factors that Shift AD because the Change of C:
 - 1 Consumer Wealth: wealth , CT, AD Shift to the right
 - 2 Consumer Expectation on Real Income and Prices: Future income T, CT
 - 3 House hold Barrawing: Barrawing +, C1, AD shift to the right
 - 4) Taxes: T1, DII, CI, AD Shift to the left

2 Change in Investment Spending (Ig) • Ig t, EDPt, AD shift to the right • Ig t, EDPt, AD shift to the left

* tactors:

- Interest rate (i): interest 1, investment 6, ODP 6, AD shift to the left
- 2 Expected return (r): rt, investment 1, GDP 1, AD shift to the right

3 Change in Sovernment spending (6)

· GT, GDPT, AD Shift to the right

· Gd , GDP d , AD shipt to two left

4 Change in Net Exports Sponding (XW)

· Xnt, EDPT, AD shift to the right

· Xn 1, GDP 1, AD Shift to the Left



A Factors:

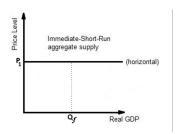
- · National Income Abroad: National income T, Xn T, AD Shift to the right
- · Exchange Rate: · Depreciate -> GDP 7, AD shift to the right
 - · Appreciate > GDP +, AD shift to the left

* Aggregate Supply

- The relationship between the price level and the amount of real domestic output that firms in the economy produce
- · This relationship depends on the time horizon and how quickly output prices and input prices can change

* Aggregate Supply in the immediate Short Run

- . Input and output prices Story fixed
- · Output may be higher or lower than the economy's full employment (Q2)
- · only output am change



* Aggregate Supply in the Short Run

- · output prices are flexible
- input prices are fixed or highly inflexible
- The AS Cure is upward slopping -> direct positive relationship between the price level and GDP

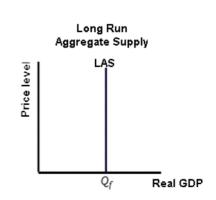


The AS Slope is relatively Steep (3LD) beyond the Full employment output (Qe), because Shortages and Capacity limitation make it difficult to expand real output as the price level rices

· Both output and input com Change

* Aggregate Supply in the long Run

- · Both input and output prices are flexible
- · They produce in full employment lovel no mouther what the price is
- · Wages and input are matching the level
- · only price will change



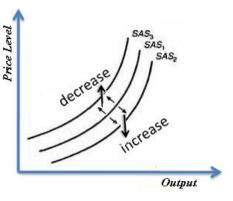
+ Change in Aggregate Supply

* Determinants of AS

- 1 Input (Resources) prices
 - · Domestic Resources Prices
 - · Resource prices 1 (wage, rent, interest, profit),
 Cost per unit 1, As 1 (shift to the left)



· per unit cost 1, ASI(Shift to the left)



BUI-IIB

2 Productivity

- · productivity = Total output
 Total input
- · per unit production Cost = Total input cost
 Total output
- · Productivity 1, per unit production Ost 1, AS shift to the right

3 Legal Institutional Environment

- · Business Taxes

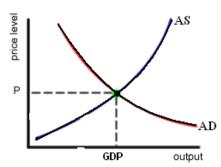
 TT, per unit production Cost T, AS I shift to the left
- Business Subsidies The will production Cost +, AS & shift to the right

4 Government Regulations

- · More Regulations -> Cost T, As shift to the left
- · less Regulations -> cost + . As shift to the right

* Equilibrium and changes in Equilibrium

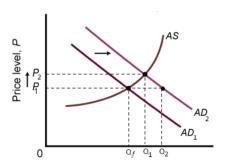
- · At Equilibrium -> AD = As
- · If AD>AS → GDP Shortage
- · If AD < AS GDP Surplus
- 4 GDP = (GDP @ equilibrium والرقم اي بعطونا اياه



*Changes in Equilibrium

#Increuse in AD: Demand - Pull Inflation

- Inflationary GDP Gap = Q1 Q4
- · Price > multiplier effect +
- · Price remains the same multiplier Would have been at full Strongth



* Decrease in AD: Recession and Cyclical Unemployment

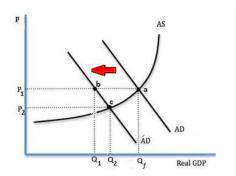


· Price inflexible :

- · Economy & from a to b
- · 6DP Gap = Q1-Q1

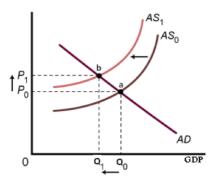
· Price Plexible 1:

- · Economy & From a to C
- · output = Qe-Q
- · Recession and cyclical unemployment



* Decrease in AS: Cost-Push Inflation

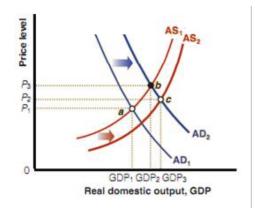
- · AS + -> PT from Po to P
- · GDP Gap = Q1 Q0



* Increase in AS: Full Employment with Price Level Stability

Increase in Real output:

- · Productivity + , AST
- · Economy & from a to c
- · Strong economic growth = Q3 Q1
- · Full Employment
- · Only very mild inflation P, to P,



Chapter 31: Fiscal Policy, Deficit, and Debt

Fiscal Policy government's power of taxation end spending

Expansionary Fiscal Policy

*When recession:

- · 61 or T 1, CT or both
- . AD to the right
- · DEDP= m * DG , m= 1
- · AGDP= m * AC
- . AG = MPC + AT
- · Δ GDP = mz * ΔT , mt = -MPC

Contractionary Fiscal Policy

- \$ TO Slow an economic expansion and Prevent inflation
- * May lead to higher memployment
- * When demand-pull inflation occurs: 6 tor TI - Cl or both
- * AD to the left
- *61 -> Price 1
- *T7 -> EDP 1

* Government Budget Types: The government budget = T-G

Balanced Budget: T= G

will creat

Suplus Budget: T>G

Deficit Budget: T<G

