

Introduction to Macroeconomics: CT1 Notes

Key Economic Aims:

1. Sustained Economic Growth
 - a. Refers to actual and potential growth
 - b. Actual growth: measured in terms of GDP
 - c. Potential growth: increase in the production capacity of the economy
 - d. Important to increase levels of consumption and easier redistribution of income to the poor
2. Low Unemployment
 - a. Unemployment: people who are available for work and actively seeking work can't find jobs
 - b. Measured by the unemployment rate
 - c. It also represents a waste of human resources (not producing on the PPC curve) and unemployment benefits are a drain on Government budget
3. Price Stability
 - a. Inflation: sustained increase in the General Price Level (measured by % increase of CPI)
 - b. Low rate of inflation keeps prices stable to aid process of economic decision making
 - c. High inflation: purchasing power of money eroded quickly
4. Healthy Balance of Payments
 - a. BOP: record of a country's economic transactions
 - b. BOP chronic deficit: loss is covered by draining foreign reserves
 - c. If nothing is done to correct BOP deficit, currency will depreciate (which will cause great uncertainty and affect international trade and economic growth)
5. Stable Foreign Exchange

Macroeconomic Policies

- Demand Management (regulate aggregate demand)
 - Monetary Policy (interest rate and money supply)
 - Exchange Rate Policy
 - Fiscal Policy (using government budget by taxation and expenditure)
- Supply Management (increase aggregate supply)

Circular Flow of Income

- $AD = C + I + G + (X - M)$
 - Compromises firms, households, the Government and the Foreign Sector
 - Withdrawals: savings (S), taxes (T) and imports (M)
 - Injections: investments (I), government expenditure (G), exports (X)

Macroeconomic Indicators

National Income

- GDP
 - Value of all final goods and services produced within a given country during a period of time
 - Methods of Calculation:
 - Product Approach: add up final value of everything produced (avoid double counting)
 - Income Approach: production of goods and services will generate incomes for households through wages profits, rent and interest
 - Expenditure Approach: add up all expenditure ($C + I + G + (X - M)$)
 - National Product = National Expenditure = National Income
 - Uses of GDP:
 - Measure economic growth: compare yearly national income data

- Gauge economic strength of different countries (GDP per capita to calculate country's contribution to IMF and World Bank + separate into developed/underdeveloped)
- Determine contribution from various sectors of the economy (product approach to determine production figures from various industries)
- Distribution of national income among different income groups (workers, landlords etc.)
- Formulation of economic policies and measuring standard of living
- GNP
 - Value of all final goods and services produced by domestic factors of production in a given period
 - $\text{GNP} = \text{GDP} + \text{net factor income from abroad (NFIA)}$
 - NFIA = income accrued to locally owned FOP situated abroad – income earned by foreign owned productive factors located within the country
 - Shows how much national income is derived from abroad OR level of foreign investment
- NNP
 - $\text{GNP} - \text{depreciation} = \text{NNP}$
 - Depreciation is hard to estimate accurately so this is rarely used
- Nominal vs Real Income
 - Nominal GDP: measures GDP at current prices = does not account for inflation
 - Real GDP: measures GDP in the prices that existed in some particular year
 - Eliminates nominal GDP increase that is due to increase in prices
 - Measures actual increase in goods and services produced
- Disposable Income
 - Income that people have available for spending (after all deductions and contributions)
 - Best measure to use to see how changes in household income affect consumption

Inflation Rate

- Definition: percentage change in price level from year to year
- Consumer Price Index:
 - Measures the change in the price of a fixed basket of goods and services commonly purchased by a typical household over a period of time
 - Weighted price index: each item in the basket has a weight according to its importance
 - Types and specifications of goods and their quantities are kept constant at the base period
- Uses of the CPI:
 - Needed as a price deflator to compile economic statistics such as real GDP
 - Formulation of monetary policies and identify source of inflation
 - Used by the state to make adjustments to economic and social schemes (and wages)
 - Used by businessmen in planning and wage adjustments
- Limitations of CPI
 - Substitution bias: some prices rise more than others, so consumers buy more goods whose prices have risen less or have fallen (thus CPI might overstate the increase in cost of living)
 - Quality adjustment: changes in quality are hard to observe, and CPI understates this
 - New products: decline sharply in price in the first few years upon introduction (not added to market basket until many years later, and price declines are not recorded)

Unemployment Rate

- $\text{Number of employed persons} / \text{Labour Force} \times 100\%$
- Labour force = economically active population, either employed or unemployed
 - Economically inactive: those who were not working, did not have a job to return to and were not looking for a job in the reference period (students, homemakers, retirees)

Balance of Payments

- Principles

- Countries which are open economies will have global flows of money recorded in BOP
- Receipts of money from abroad = credits (+ve), outflows are debits (-ve)
- When all credit and debit items are taken together (from every country), they add up to 0
- BOP must balance due to double-entry bookkeeping system (each transaction recorded twice, once as a debit and once as a credit)
- BOP is in equilibrium when current + capital + financial account = 0
 - Positive balance = BOP surplus, negative balance = BOP deficit
- Current Account
 - Goods balance: import and export of physical goods (exports are inflows = credit)
 - Services balance: import and export of service (transportation, travel, insurance)
 - Income balance: wages, interest and profits flowing in and out
 - Current transfers: government contributions to and receipts from international organizations, or international transfer of money by individuals and firms
- Capital Account: flow of funds associated with acquisition or disposal of fixed assets (land)
- Financial Account:
 - Direct Investment (Long Term Capital): acquisition or sale of assets
 - Portfolio Investment (Hot Money): holding of paper assets such as company shares
- Overall Balance:
 - BOP surplus = increase in foreign currency available for foreign reserves/pay off foreign debt
 - BOP deficit = run down foreign reserves or borrow from IMF

Standard of Living

- Overview
 - Refers to both material (amount of goods and services consumed) and non-material aspects (health, stress, security)

Measurement of SOL (Material)

- Real GDP per capita: adjusted for inflation and population growth
 - Inflation Rate: Changes in nominal GDP reflect both price and output produced changes
 - Real GDP only reflect changes in the volume of output (real GDP more relevant)
 - Population growth: if population increases by more than GDP, amount of goods and services available to each person is actually less, so SOL decreases

Measurement of SOL (non-material)

- Life expectancy rate (access to healthcare)
- Literacy rate (access to education)

Limitations of using GDP

- Measuring national output
 - Exclusion of non market activities: non paid housework and other unpaid activities (volunteering) that are ignored in the computation of GDP since no transaction was recorded
 - Exclusion of underground economy: illegal activities or private home tuition
- Measuring material welfare
 - Composition of GDP: production does not mean consumption (capital investments increase GDP but current living standards remain the same, this helps to increase future SOL)
 - Income distribution: GDP does not convey who gets to enjoy goods and services
- Measuring non-material welfare
 - Leisure time: if GDP increases due to longer working hours, it means less leisure time to pursue other worthwhile activities not reflected in GDP
 - Environmental degradation: external costs of polluting air and rivers not taken into account

Comparing SOL between countries

- **Material SOL:** PPP adjusted GDP per capita (US\$)
 - Exchange rates: GDP figures converted to common currency at a purchasing power parity rate (allow a given amount of money in one country to buy same amount of goods in another) adjusting for costs of living
 - Population: account of differences in population sizes between countries
- **Non-material SOL:** life expectancy, literacy, pollution, crime rates

Difficulties in comparison

- Difference in accounting procedures
 - No internationally agreed method of measuring national income, accuracy in data varies
 - Less developed countries have more non-marketed good (self-sustenance in farming)
- Difference in size of underground economy
- Difference in composition of GDP (goods consumed are not identical)

Alternative measurements of SOL

- HDI: combined measure of life expectancy, education and GDP per capita PPP adjusted
- Measure of Economic Welfare: adjust GDP and adds leisure, unpaid housework
- Index of Sustainable Economic Welfare: accounts for inequality, household production, environmental costs, resource depletion