Pace2race Institute (www.pace2race.com)

Economics-Introduction

Wealth [Adam Smith]

Well Being [A.C. Pigou]

Choice Making [Lionel Robbins] Growth & Dev.
[Paul A Samuels]

An inquiry into the nature and causes of the wealth of the nations

Study of mankind in the ordinary business of life

Study of mankind in the ordinary between ends and scarce means which have alternative uses

of how men and society choose, with or without the use of money, to employ scarce productive resources which could have alternative uses

Micro

study the economic behavior of an individual, firm or industry in the national economy Macro

of overall
economic
phenomena as a
whole rather than
its individual parts

Methods of Study

DEDUCTIVE logic proceeds from **general to particular**

INDUCTIVE

logic in this case proceeds from the particular to the general

Why to Study?

QUESTIONS When to produce? What to produce? For Whom to produce

Economic Systems

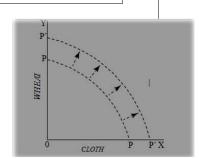
Capitalist

Socialist

Mixed

1 4 B C CLOTH

Production Possibility
Curve



Shift in PPC

all the means of production are owned and controlled by private individuals for profit the material means of production i.e. factories, capital, mines etc. are owned by the whole community represented by the State

aim is to develop a system which tries to include the best features of both the controlled economy and the market economy while excluding the demerits of both

PPC is a graph that shows the different rates of production of two goods that an individual or group can efficiently produce with limited productive resources

Pace2race Institute (www.pace2race.com)

Demand

What is Demand?

demand' refers to the quantity of a good or service that consumers are willing and able to purchase at various prices during a period of time

Determinants of Demand

Price of the commodity Level of income of the household Tastes and preferences of consumers

Price of related commodities
(i) Complementary
(ii) Competing

Law of Demand

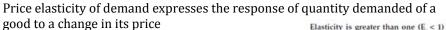
an inverse relationship between price and quantity demanded

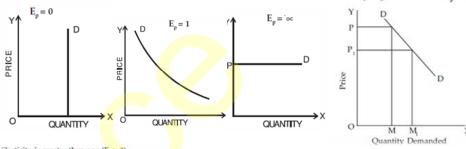
Rationale of Demand

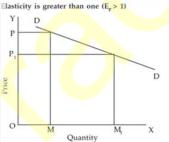
Diminishing Marginal utility
Substitution effect
Income effect
Different uses

Exceptions

Conspicuous Goods Giffen goods Future expectations Speculative goods







Availability of substitutes
Position of a commodity in consumer's budget
Nature of need that commodity satisfies
Number of uses to which a commodity can be put
Period

Consumer Habits

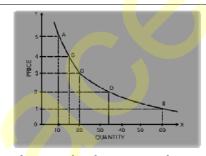
Determinants

	Price (`)	Quantity demanded (Units)
A	5	10
В	4	15
С	3	20
D	2	35
E	1	60

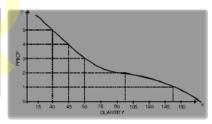
Demand Schedule is a series of quantities which consumer would like to buy at different prices at a given point of time

	Qu			
Price(')	P	Q	R	Total market demand
5	10	8	12	30
4	15	12	18	45
3	20	17	23	60
2	35	25	40	100
1	60	35	45	140

When we add up the various quantities demanded by the number of consumers in the market we can obtain the market demand schedule



When we plot the prices and quantities demand on a graph it is termed as a demand curve

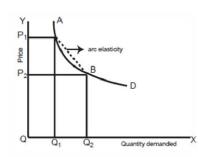


If we plot market demand schedule on a graph we get market demand curve

In **point elasticity**, we measure elasticity at a given point on a demand curve.



In **arc elasticity**, we measure elasticity between 2 points on a demand curve.



Income elasticity of demand is the degree of responsiveness of quantity demanded of goods to a small change in the income of consumers.

Income Elasticity = (% change in quantity demanded)/(% change in income)

Cross demand refers to the quantities of a commodity or service which will be purchased with reference to changes, not of that particular commodity, but of other inter-related commodities, other things remaining the same.

Consumer Behavior

Marginal Utility

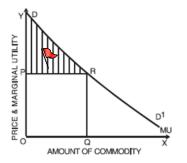
It is the additional utility derived from additional unit of a commodity

Diminishing Marginal Utility

The additional benefit which a person derives from a given increase in stock of a thing diminishes with every increase in the stock that he already has

Consumer Surplus - Marshall

consumer's surplus = What a consumer is ready to pay - What he actually pays.



Indifference Curve Analysis

Indifference curve gives same satisfaction to the consumer at every point. It is a ordinal concept

Assumptions of Marginal Utility

- Cardinal measurability of utility
- Constancy of marginal utility of money
- Hypothesis of independent utility

Limitation of Dim. Marg. Utility

- Homogeneous units
- Standard units of consumption
- Element Concept
- Law fails for prestigious goods
- Case of related goods

Limitations of Consumer Surplus

- Can not be measured precisely
- Affected by availability of substitutes
- Can not be measured in terms of money as marginal utility of money changes
- In case of necessaries, marginal utilities of earlier units are infinitely large

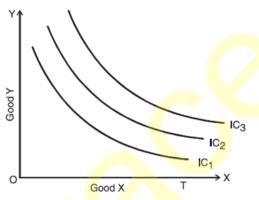
Assumptions of Indiff. Curve Analysis

- Consumer is rational
- Capable of ranking all combinations of goods
- If combination A has more commodities then B, then A should be preferred
- If consumer prefers combination A to B, B to C then he must prefer combination A to C

Indifference Shedule

Combination	Food	Clothing	6 2 1
A	1	12	
В	2	6	
С	3	4	
D	4	3	

Indifference Map



Set of Indifference Curves

Properties of Indifference curves

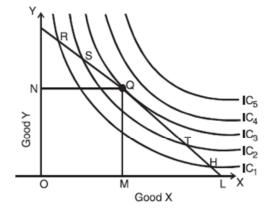
- Slope downward to right
- Always convex to origin
- Can never intersect each other
- Higher indifference curve represent higher satisfaction
 - Indifference curve will never touch the axis

Budget Line



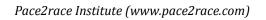
a budget line shows all those combinations of two goods which the consumer can buy spending his given money income on the two goods at their given prices. All those combinations which are within the reach of the consumer (assuming that he spends all his money income) will lie on the budget line.

Consumer Equilibrium



At equilibrium point Q,

$$MRS_{xy} = \frac{MU_x}{MU_y} = \frac{P_x}{P_y}$$



Production

Production

Production is the organized activity of transforming resources into finished products in the form of goods and services; and the objective of production is to satisfy the demand of such transformed resources

James Bates and J.R. Parkinson

Factors of Production

Land

Labour

Capital

Enterprenuer

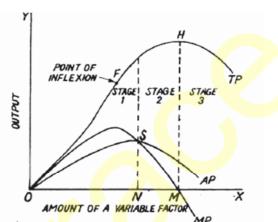
- Nature Gift
- Fixed Supply •
- Indestructible •
- **Passive**
- Different uses
- Human Effort
- Perishable
 - Mobile
- Inseparable from laborer
- All laborer not productive

Stages of formation Functions

- Savings
- Mobilization
- Investments

- Initiating a business
- Risk bearing
- **Innovations**

Law of Variable Proportions



Stages

- Law of increasing returns
- Law of diminishing returns
- Law of negative returns

A rational producer will always produce in stage 2 where both the marginal product and average product of the variable factors are diminishing.

The law of diminishing return is the marginal product of each unit of input will decline as the amount of that output increases, holding all other inputs constant

Samuelson

Production Function

The term production function is applied to the physical relationship between a firm's input of resources and its output of goods or services per unit of time leaving prices aside

Richard H. Leftwich

Equation

q = f (a, b, c, dn)where 'q' stands for the rate of output of given commodity a,b,c,d.....n, are different factors (inputs) and services used per unit of time.

Assumptions

- Related to particular unit of time
- Factors of production are divisible
- Best available technique is used

Economies & Diseconomies

Cobb-Douglas Production Function

$Q = KL^a C^{(1-a)}$

where 'Q' is output, 'L' the quantity of labour and 'C' the quantity of capital. 'K' and 'a' are positive constants

Internal

- **Technical**
- Managerial
- Commercial
- Financial
- Risk Bearing

- Technical knowledge is constant

External

- Cheaper raw material
- Technological
- Development of skilled labour
- Growth of ancillary industries
- Better transportation and marketing

Increasing

Returns to Scale

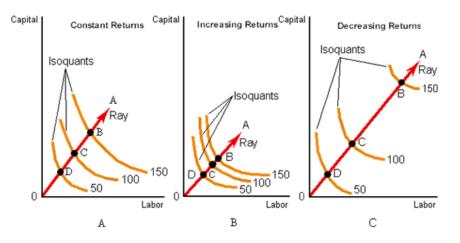
with the increase in the sca<mark>le in s</mark>ome proportion, output increases in the same proportion

Constant

increasing returns to scale means that output increases in a greater proportion than the increase in inputs.

Decreasing

When output increases in a smaller proportion with an increase in all inputs, decreasing returns to scale are said to prevail.



Cost

Economic Costs

economic costs include:

- (1) the normal return on money capital invested by the entrepreneur himself in his own business:
- (2) the wages or salary not paid to the entrepreneur but could have been earned

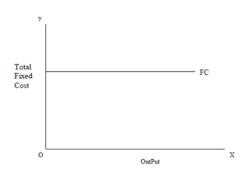
Direct or Traceable Costs

Direct costs are costs that are readily identified and are traceable to a particular product, operation or plant.

Cost Function

The cost function refers to the mathematical relation between cost of a product and the various determinants of costs.

Completely Fixed Cost



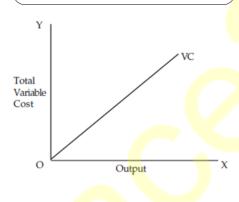
Outlay & Opp. Costs

Outlay costs involve actual expenditure of funds on, say, wages, material, rent, interest, etc. Opportunity cost, on the other hand, is concerned with the cost of foregone opportunity

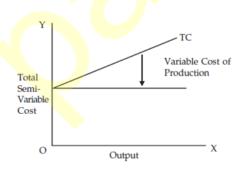
Indirect or non-traceable costs

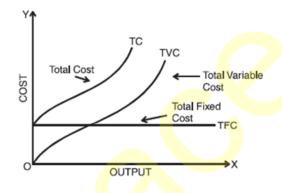
Indirect costs are not readily identified nor visibly traceable to specific goods, services, operations, etc.

Completely Variable Cost

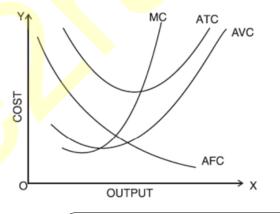


Semi - Variable Cost





Short Run Marginal and Average Cost Curves



Short Run Total Cost Curves

Total cost of a business is the sum of total variable cost and total fixed cost or symbolically TC = TFC + TVC

Average Fixed Cost

AFC is the total fixed cost divided by the number of units of output produced.

Average Variable Cost

Average variable cost is the total variable cost divided by the number of units of output produced

Average Total Cost

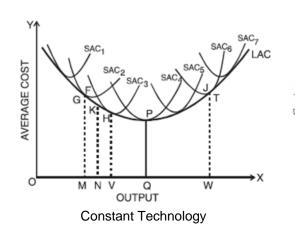
Average total cost is a sum of average variable cost and average fixed cost. i.e.,

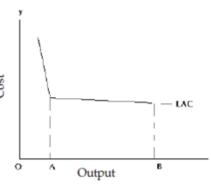
ATC = AFC + AVC.

Relationship bet. AC & MC

MC < AC ---- Average Cost Falls MC > AC ---- Average Cost Rises MC = AC ---- Average Cost is Min.

Long Run Average cost Curve





Changing Technology

