Micro-Economics Price Elasticity of Demand

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PRICE ELASTICITY OF DEMAND



- Meaning
- Formula
- Types
- Factors affecting Ped
- Methods of measuring Ped

• It's the degree of responsiveness of demand to change in price

Formula



- Pedx= % change in Dx
 - % change in Px

• Ped is Always Negative

Types



- 1. Ped>1
- 2. Ped<1
- 3. Ped=1
- 4. Ped =0
- 5. Ped=∞





Dx















4. Ped= 0 Condition:(% Dx =0)



Dx



5. Ped=α Condition:(A v. small ▲ Px brings v. large ▲ Dx)



Dx

Factors affecting Ped



- 1. Nature of the product
- 2. Number of substitutes
- 3. Durability
- 4. Uses
- 5. Time Period
- 6. Price level
- 7. Place of product in consumer's budget

Methods of measuring Ped



- 1. Percentage method
- 2. Arc method (average method/ midpoint)
- 3. Point method (geometric method)
- 4. Total outlay method

(Total expenditure method)

Percentage method



If the price of the product drops from **Rs. 10** per unit to **Rs. 5** per unit and as a result the demand rises from **100 units** to **140 units**, find out the Ped.



Arc method



If the price of the product drops from **Rs. 10 per** unit to **Rs. 5 per unit** and as a result the demand rises from **100 units** to **140 units**, find out the Ped.



3. Point method



Total Outlay Method



 Price and TE (Inverse Relation): Elastic Demand

 Price and TE (Direct Relation): Inelastic Demand

• TE Constant: Unitary Elastic



When Ped=1 (demand is unitary elastic), the **demand curve** is a **rectangular hyperbola**