

Chapter 6 – Cost

Cost in economics refers to the monetary value of all the inputs used in the production of goods and services. It plays a crucial role in decision-making for businesses, as it directly affects pricing, output levels, and profitability. Understanding cost concepts helps in analyzing production efficiency and determining optimal resource allocation.

1. Meaning of Cost

Cost is the expenditure incurred by a producer to acquire factors of production and other inputs required for producing goods and services. In economics, cost includes both **explicit** and **implicit** costs.

2. Types of Costs

A. On the Basis of Nature

1. **Money Cost** – The actual expenditure in monetary terms on production (e.g., wages, rent, raw materials).
 2. **Real Cost** – The mental and physical efforts of labor and the sacrifice of resources.
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B. On the Basis of Time Period

1. **Short-run Costs** – Costs when at least one factor is fixed. Includes:
 - **Fixed Costs (TFC)** – Do not change with output (e.g., rent, salaries).
 - **Variable Costs (TVC)** – Change with output (e.g., raw materials, wages).
 2. **Long-run Costs** – All inputs are variable; no fixed cost exists.
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C. On the Basis of Cost Behavior

1. **Fixed Costs** – Constant at all levels of output.

2. **Variable Costs** – Vary directly with output.
 3. **Semi-variable Costs** – Partly fixed, partly variable.
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3. Important Cost Concepts in Economics

1. **Total Fixed Cost (TFC)** – Total cost of fixed inputs; remains constant.
 2. **Total Variable Cost (TVC)** – Total cost of variable inputs; changes with output.
 3. **Total Cost (TC)** –
 $TC = TFC + TVC$
 $TC = TFC + TVC$
 4. **Average Fixed Cost (AFC)** –
 $AFC = \frac{TFC}{Q}$
 $AFC = \frac{TFC}{Q}$
 Decreases as output increases.
 5. **Average Variable Cost (AVC)** –
 $AVC = \frac{TVC}{Q}$
 $AVC = \frac{TVC}{Q}$
 U-shaped curve in the short run.
 6. **Average Total Cost (ATC)** –
 $ATC = \frac{TC}{Q}$ or $ATC = AFC + AVC$
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 7. **Marginal Cost (MC)** – The addition to total cost by producing one more unit:
 $MC = \frac{\Delta TC}{\Delta Q}$
 $MC = \frac{\Delta TC}{\Delta Q}$
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4. Short-run Cost Curves

- **AFC** – Always downward sloping.
 - **AVC & ATC** – U-shaped due to law of variable proportions.
 - **MC** – U-shaped and intersects AVC & ATC at their minimum points.
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5. Long-run Cost Curves

- In the long run, all costs are variable.

- The **Long-run Average Cost (LAC)** curve is U-shaped due to economies and diseconomies of scale.
 - **Economies of Scale** – Lower average cost with increased production.
 - **Diseconomies of Scale** – Higher average cost when scale becomes too large.
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6. Opportunity Cost

The value of the next best alternative foregone when a choice is made.

7. Relationship Between Cost and Output

- At low output, costs are high due to fixed costs being spread over fewer units.
- At optimal output, average costs are minimized.
- Beyond this point, costs rise due to inefficiencies.



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