# CHAPTER 22 :Firm costs revenue and objectives

### Key terms

- 1. Total cost : the total amount that has to be spent on the factors of production used to produce a product.
- 2. Average total cost : total cost divided by output.
- 3. Fixed costs : costs which do not change with output in the short run.
- 4. Average fixed cost : total fixed cost divided by output.
- 5. Variable costs : costs that change with output.
- 6. Average variable cost : total variable cost divided by output.
- 7. Long run : the time period when all factors of production can be changed and all costs are variable.
- 8. Price : the amount of money that has to be given to obtain a product.
- 9. Total revenue : the total amount of money received from selling a product.
- 10. Average revenue : the total revenue divided by the quantity sold.
- 11. Profit satisficing : sacrificing some profit to achieve other goals.
- 12. Profit maximisation : making as much profit as possible or making the largest difference between total revenue and total cost.

#### 1. Calculating the costs of production

• **Total cost** : the total amount that has to be spent on the factors of production used to produce a product.

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Total cost = Fixed cost + Variable cost
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• **Fixed costs** : costs which do not change with output in the short run e.g. machines, rent, and interest on loan.



• Variable costs : costs that change with output e.g. raw material.



• Average fixed cost : total fixed cost divided by output.

Average fixed	cost = <u>Total fixed cost</u> Quantity of output	_
Cost		
Average fixed		
cost (AFC)		

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### Average variable cost : total variable cost divided by output.

Average variable cost = <u>Total variable cost</u> Quantity of output AVC1  $\Rightarrow$  when a firm faces diseconomies of scale. AVC $\downarrow \Rightarrow$  when a firm faces economies of scale. 2. Revenue Total revenue : the total amount of money received from selling a product. Total revenue = Price × Quantity Average revenue: the total revenue divided by the quantity sold. Average revenue = Total revenue Quantity of output

### CASE : When price is constant in perfect competition market



# CASE: When price is falling as the quantity sold rises

#### For example :



Quantity	Price	Total Revenue (TR)	Total Average Revenue (AR)
1	10	10	10
2	9	18	9
3	8	24	8
4	7	28	7
5	6	30	6
6	5	30	5
7	4	28	4

**To sum up :** When price is falling as the quantity sold rises AR =P and AR is falling. TR rises and falls.

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### 3. Objectives of firms

- 1. Survival
- 2. Growth
- 3. Social welfare
- 4. Profit satisficing
- 5. Profit maximization

## 4. To increase profit

- **1.** Reducing cost of production.
- 2. Increasing revenue