A2 – ECONOMICS (9708)

MICRO

CHAPTER 2

Production, Costs, Revenues and Profits

Topics	
Topic 1: Production	
Topic 2: Costs (Short-Run)	
Topic 3: Costs (Long-Run)	
Topic 4: Revenues	
Topic 5: Profits	
Topic 6: Price and output decision	

TOPIC 1: PRODUCTION

Lecture 1

3 Key relationships

1. Marginal and Total

The marginal shows what happens to totals. Example: If marginal cost is increasing total is increasing. Example Marginal cost goes up by \$5 total cost will go up by \$5 and vice versa.

Marginal is increasing and +ve -> Total Increases with an Increasing Rate Marginal is decreasing and +ve → Total Increases with a Decreasing Rate

Marginal = $0 \rightarrow$ Total is at its Maximum

Marginal -ve → Total Decreases

2. Marginal and Average

If the marginal is above average the average will increase. If the marginal is below average, average will decrease. Where marginal will equal average, average is constant.

Marginal > Average → Average ↑ Marginal < Average → Average ↓ Marginal = Average → Average Constant

3. Average and Total

Average is the total divided by the number of units. Example: Average revenue is total revenue divided by total units. Average cost is total cost divided by total units.

1. PRODUCTION

Short run: It is a time period during which at least one factor of production is fixed. Usually labor is variable.

Long Run: It is a time period where all inputs can be changed. All Factors of production are variable.

Definition | Long-Run Production Function: It is the relationship between a firm's output and the quantities of factor inputs that it employs.

1. Law of Diminishing Return

Definition: Also known as the law of diminishing marginal product), as more and more units of a variable input (such as labor) are added to one or more fixed inputs (such as land), the marginal product of the variable input at first increases, but there comes a point when it begins to decrease. This relationship presupposes that that the fixed input(s) remain fixed, and that the technology of production is also fixed. The output is increasing a diminishing rate. There are THREE assumptions:

- 1. At least one factor is fixed which is usually capital
- 2. Each unit of Factor of production is the same. Example: Every labor is equally trained.
- 3. Level of technology and efficiency of machines are all held constant.

2. Total Product, Marginal Product, Average Product

Definition	Explanation
1. Total Product	The total quantity of output produced by a firm.
2. Marginal Product	The extra or additional output resulting from one additional unit of the variable input, labor; it tells us by how much output increases as labor increases by one worker.
3. Average Product	The total quantity of output per unit of variable input, or labor; this tells us how much output each unit of labor (each worker) produces on average.

3. Total Product, Marginal Product, Average Product | Curves 2 2.5 3 3.3 23 24 2.7 23 25 units of output 20 ΤP 15 10 -5 1 2 3 4 5 6 7 8 9 10 11 0 units of variable input (labour) increasing decreasing negative marginal marginal marginal product product product 5 units of output 3 2 1 0 -1 1 2 3 4 5 6 7 8 9 10 11 units of variable input -2-(labour) -3

Marginal and Total Product 1. Increasing Marginal Product This is where every unit of labor added increases the total 2. Decreasing Marginal Product product. [From unit 0-4] This is where every unit of labor added increases the total product but a decreasing rate. This because marginal product 3. Negative Marginal Product is still positive. [From units 4-9] This is where every unit of labor added will decrease the total product. [After unit 9]

Marginal and Average Production of the Average Production of the P Average product also rises at first and then falls. The relationship between the average and as a use more and in a command care, thus we due to the first of discourse figure

If MP > AP \rightarrow AP Increases If MP < AP → AP Decreases

This means the marginal product curve always intersects the average product curve when this is at its maximum. The reason lies in the mathematical relationship between the average and marginal values of any variable.

Consider a simple example involving test scores, Say you have an average of 80 in your tests and you would like to increase your average. If your next text score (the 'marginal' score) is greater than your average of 80, your average will increase. If your next test score is lower than your average of 80, then your average will fall. This relationship between average and marginal test scores is exactly the same as the relationship between average and marginal products.



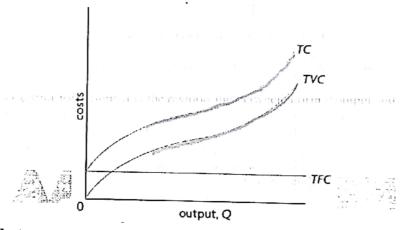
TOPIC 2: COSTS (SHORT-RUN)

Definition | Costs: These are expenses of a firm. which include money payments to buy resources plus anything else given up by a firm for the use of resources. These include the production cost and the opportunity costs. Example: Labor, Machinery, opportunity cost of

1. Total Costs

Lecture 2

1 7	
1. Total Fixed Costs 2. Total Variable	These are the costs that do not change with output. Example Salaries, Rent, etc. The TFC curve is parallel to the horizontal axis, as it represents a fixed amount of costs that do not change as output changes.
Costs	These are costs which do vary with output. Example: Material, labor etc. The TVC curve shows that TVC increases as output increases. However, it does not increase at a constant rate; this is due to the law of diminishing marginal returns.
3. Total Cost	TC = Fixed Cost + Variable Cost. The TC curve is the vertical sum of TFC and TVC, and so the vertical difference between TC and TVC is equal to TFC.

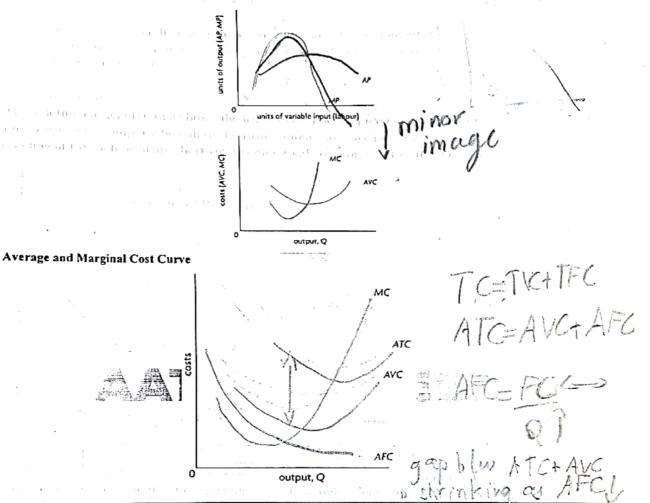


2. Average Costs

Definition: These are the per unit costs. Against the Three total costs above, if every cost is divided by output we will get the average costs

divided by output we will get the average costs.		
1. Average Fixed Cost	This is fixed cost per unit. The AFC curve indicates that AFC falls continuously as output increases, because it represents the amount of fixed costs (TFC) divided by an ever growing quantity of output.	
	average the variable factor becomes more productive at first and then becomes less productive. The average cost of variable factor per unit of output falls when the factor is more productive and rises when the factor is less productive	
1	This is the total cost per unit. ATC = AFC + AVC The ATC curve is the vertical sum of AFC and AVC, and so the vertical difference between the ATC and the AVC curves at any level of output is equal to AFC.	

Definition: This is the cost of production another unit. It is a "U" Shaped curve. The marginal cost curve in the short run is inversely related to the marginal product. When marginal product increases, the marginal cost falls and vice versa. Suppose the variable factor is labor. When each extra worker is more productive less time is needed to make an extra unit. Assuming wages are constant the extra cost per unit will fall. Example: When each extra worker is less productive more of their time will be need to make an extra unit so the marginal cost of the unit will rise. The same logic applies to the AVC and AP curve.



Note: The U-shape of the AVC, ATC and MC curves is due to the law of diminishing returns. This law also explains why the AVC and MC curves are mirror images of the AP and MP curves.

Marginal and Average Costs

Average and Marginal costs first decreases and then increases. The relationship between the average and marginal cost curves:

> If MC < AC → AC Decreases If MC > AC → AC Increases

This means the marginal cost curve always intersects the average cost curve when this is at its minimum. The reason lies in the mathematical relationship between the average and marginal values of any variable.



TOPIC 3: COSTS (LONG-RUN)

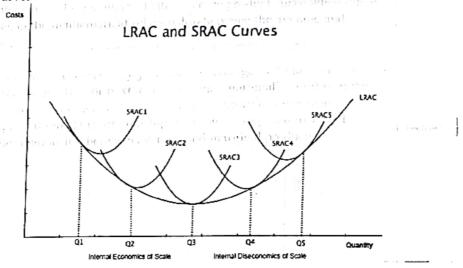
1. LONG-RUN AVERAGE COST & SHORT-RUN AVERAGE COST

- 1. In the long run there are no fixed inputs and therefore no fixed costs; all inputs are variable. Hence the long-run is when your fixed factors of short-run start to increase. When a firm varies inputs that were fixed in the short run, it changes its size or scale.
- 2. As the firm plans its future activities in the long run, it can select any size or scale of operation depending on the quantity of output it is aiming for. The particular size it selects will be the one that minimizes costs for that level of output.

Long-Run Average Cost Curve

Lecture 3

Definition: LRATC is defined as a curve that shows the lowest possible average cost that can be attained by a firm for any level of output when all of the firm's inputs are variable. It is a curve that just touches (is tangent to) each of many short-run average total cost curves. It is also known as a planning curve.



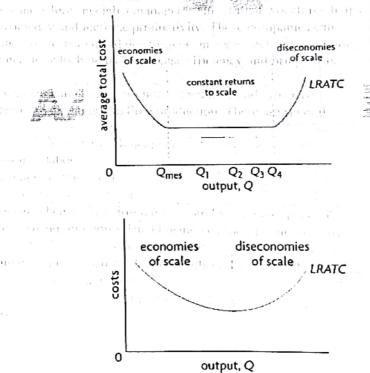
From Q1 to Q3	At Q3	Q3 to Q5
When the firm expands it moves to a new lower short-run average cost curve.	When the firm expands it stays on the same average cost level.	When the firm expands it moves to a higher short-run average cost curve.
Internal Economics of Scale	Constant Returns to Scale	Internal Diseconomies of Scale

MCQ

2. RETURNS TO SCALE

Definition: This is analyzing what happens to output when firm changes all of its inputs. There are THREE possibilities.

	analyzing what my
are THREE possib	bilities:
Possibility	Description Increase in all lactor Inputs (land, lavor and land, lavor and l
1. Increasing	Description This means that a proportionate increase in all factors of production leads to a more than proportionate increase in output. Example: Inputs (land, labor and more than proportionate increase in output. Example: Inputs (land, labor and capital) increase by 10% the output will increase by 20%. This leads to a capital) increase by 10% the output will increase by 20%.
Returns to Scale	more than proportionate the output will increase by 20%
' ''	capital) increase by 1070 and
	reduction in a second
	$\Delta = 100\% \Delta = 100\% $
1	Input 10% \uparrow < Output 20% \uparrow = IRTS \rightarrow AC \downarrow This means that a proportionate increase in all factors of production leads to This means that a proportionate increase in output. Example: Inputs (land, labor and the capacity proportionate increase in output. Example: Inputs (land, labor and
O Countries	
2. Constant	This heart proportionate increase in output. Example, 1994. This leads to no
Returns to Scale	an equal proportion 10% the output will increase by 10%.
+ Mary Prints	(capital) inclease by 100
district is	Change III Average Coss.
1 B. du por	Input 10% \uparrow = Output 10% \uparrow = CRTS \rightarrow AC same
11:00	Input 10% \(\gamma = \text{Output 1076}\) Input 10% \(\gamma = \
3. Decreasing	Input 10% \(\gamma = \text{Output 10% }\gamma = \text{CRTS 9 AC same state of production leads to a}\) This means that a proportionate increase in all factors of production leads to a decrease increase in output. Example: Inputs (land, labor and capital) increase decrease in all increase by 5%. This leads to increase in Average.
Returns to Scale	decrease increase in output. Example: Inputs (talle, labor increase in Average
Actuality to the	decrease increase in output. Example: Inputs (tand, tabe) and by 10% the output will increase by 5%. This leads to increase in Average
	Cost.
Langes en Fr	Input 10% ↑> Output 5% ↑ = DRTS → AC ↑
1 1 1 1	STANY SUNA



3. ECONOMIES OF SCALE (Impac)

Definition: This is a situation where average cost decreases due to an increase in the scale of production. They can therefore. production. They can therefore only incur in the long-run.

Definition: These are the economies of scale that are available to the firm that grows in size. Economies of scale explain the downward-sloping portion of the LRATC curve. There are

several types of internal economies of scale:		
Type		
1. Purchasing	A large firm requires raw material in bulk which encourages suppliers to offer discounts. This reduces the unit cost of each item.	
2. Marketing	The cost of advertising and distribution rises at a lower rate rather than increase in output and sales. Furthermore, a large business can afford to purchase its own vehicles and does not depend on other	
3. Financial	Large business raise finance at a lower cost of borrowing. Danies are willing to give more capital at a lower interest rate and investors invest at a cheaper rate. This is because a large business is less risky due to low chances of failure. Furthermore they have access to more sources of finance example a plc can raise funds through the stock	
4. Managerial	Large business hire specialist managers. This skilled work the being efficiency and increase productivity. These companies can afford their own specialized departments in areas such as marketing, operations etc. which helps to increase efficiency and bring costs	
5. Technical oue to advance machines	Large business can deploy specialist machinery and effective manufacturing methods like flow production. There are several forms: 1. Economies of increases dimensions 2. Division of labor 3. Large capital equipment 4. Research and Development	
6. Risk-Bearing benefixe of diversity iva	These occur when a large firm tends to produce a wide range of products, expand into non-related businesses and operate in many locations. The diversity spreads the risk. If one product doesn't work, the company can compensate form the others. Example: Unilever has multiple products in in portfolio.	
7. Research and Development	Large firms can spend several millions of dollars in product innovation and create products that give them a competitive advantage. GSK invests \$6.26 billion on R&D.	

Termfor MCQS

Definition: This is when by increasing the scale of production average cost per unit starts to increase. Disconnected the LDATC increase. Diseconomies of scale are responsible for the upward-sloping part of the LRATC

Internal 2 in wher	by increasing the upward of
Definition: This is when	of scale are responsible for the upward or scale are responsible for the upward or scale are responsible for the upward or scale: types of internal diseconomies of scale: Description Content of the upward or scale: The scale are responsible for the upward or scale; The scale are responsible for the upward or scale; The scale are responsible for the upward or scale; The scale are responsible for the upward or scale; The scale are responsible for the upward or scale; The scale are responsible for the upward or scale; The scale are responsible for the upward or scale; The scale are responsible for the upward or scale; The scale are responsible for the upward or scale; The scale are responsible for the upward or scale; The scale are responsible for the upward or scale; The scale are responsible for the upward or
increase. Diseconomies	types of internal diseconomies of scare: types of internal diseconomies of scare: Description In large business sending and receiving messages becomes a problem. This results in mistakes and leads to lower efficiency.
There are several	types of internal
curve. There	Description ding and receiving message
Type	In large business sending and receiving message. In large business sending and leads to lower efficiency. This results in mistakes and leads to lower efficiency. The results in mistakes and leads to lower efficiency. The results in mistakes and leads to lower efficiency.
1. Poor	This results in mistakes and leads to the unsuccessful due to
Communication	In large business sending and receiving in large business sending and leads to lower efficiency. This results in mistakes and leads to lower efficiency. This results in mistakes and leads to lower efficiency. A merger between the two firms may be unsuccessful due to clash of a merger between the two firms may be unsuccessful due to clash of the leads to lower efficiency. This results in mistakes and leads to lower efficiency. This results in mistakes and leads to lower efficiency. This results in mistakes and leads to lower efficiency. This results in mistakes and leads to lower efficiency. This results in mistakes and leads to lower efficiency. This results in mistakes and leads to lower efficiency. This results in mistakes and leads to lower efficiency. This results in mistakes and leads to lower efficiency.
2. Clash of Cultures	A merger between this situation a firm prefers to and labor. This results
Z. Clash of Garage	A merger between the two firms may be unsuccessful. A merger between the two firms may be unsuccessful. Cultures. Usually in this situation a firm prefers to demerge. Cultures. Usually in this situation a firm prefers to demerge. Cultures. Usually in this situation a firm prefers to demerge.
	A merger between the two firms thay of a merger between the two firms thay of cultures. Usually in this situation a firm prefers to demerge. Cultures. Usually in this situation a firm prefers to demerge. This results when a firm expands it needs more capital, land and labor. This results when a firm expands it needs more capital, land and labor. This results when a firm expands it needs more capital, land and labor. This results when a firm expands it needs more capital, land and labor.
3. New Resources	in the overall cost of the firm to inclease,
Expenive	When a firm expands it needs more capital, land and labor. This when a firm expands it needs more capital, land and labor. This in the overall cost of the firm to increase, which in return increases the average cost. Large businesses are usually structured hierarchically where workers Large businesses are usually structured hierarchically where workers the top managers. This makes the worker feel
UNE OPC	average cost.
FUIS	Large businesses are usually structured makes the worker feel
4. Low Morale	Large businesses are usually structured hierarchicany large businesses are usually structured hierarchicany might never see the top managers. This makes the worker feel might never see the top managers. This makes the worker feel might never see the top managers. This makes the worker feel unimportant which reduces his motivation resulting in low productivity. unimportant which reduces his motivation resulting in low productivity.
no recei un maleur	might never see his motivation resulting an accembly line,
i in the state of the	1. arogie all assert
5. Slow Decision	might never see the top many would need to do research, create an assembly line, A large company would need to do research, create an advertising A large company which distribution chains to use, plan an advertising
5. Slow Decision	
Making Library control	determine which distribution chains to use, plan an advertise determine which distribution chains to use, plan an advertise determine which distribution chains to use, plan an advertise determine which distribution chains to use, plan an advertise determine which distribution chains to use, plan an advertise determine which distribution chains to use, plan an advertise determine which distribution chains to use, plan an advertise determine which distribution chains to use, plan an advertise determine which distribution chains to use, plan an advertise determine which distribution chains to use, plan an advertise determine which distribution chains to use, plan an advertise determine which distribution chains to use, plan an advertise determine which distribution chains to use, plan an advertise determine which distribution chains to use, plan an advertise determine which distribution chains to use, plan an advertise determine which distribution chains to use a supplier determine which distribution chains and the plan advertise determine which distribution chains are advertised and the plan advertise determined
Low wings of	the competitors may well have grabbed that man
	campaign, etc., before any changes could be made. By campaign, etc., before any well have grabbed that market niche.
	Application

Definition: External economies of scale occur based on larger changes outside of the firm. External economies of scale are generally described as having an effect on the whole industry.

External economies of	
They shift the LRAC	Description An expanding industry is often assisted by other supporting industries that An expanding industry is often assisted by other supporting industries that
Type	An expanding industry is often assisted by other supporting industries. An expanding industry is often assisted by other supporting industries. I eather for footwear industry.
1. Ancillary	An expanding an uninterrupted and an uninterrupted an uninterrupted and an uninterrupted an uninterrupted and an uninterrupted and an uninterrupted an uninterrupted and an uninterrupted an uninterrupted an uninterrupted an uninterrupted and an uninterrupted an uninter
Services	provide ancillary services such as mandath and services such as mandath and provide ancillary services such as mandath and services such as mandath
Skilled Labor	Industries are usually concentrated in a concentrated in the conce
3. Reputation of Geographical Area	Valley in California for 17 Minus
Commercial Commercial	transportation, advertising to are
Services	
provide the state of the	and the state of t

External Diseconomies of Scale

Definition: External diseconomies of scale are the result of outside factors beyond the control of a company increasing its total costs, as output in the rest of the industry increases. The increase in costs can be associated with market prices increasing for some or all of the factors of production. They shift the LRAC upwards.

Type	Description
1. Pollution	When Some of a next cular industry locate in a particular place or region in
. \	tends to pollute the environment. The polluted environment and
	hazard for the laborer. Thus, the social cost of Dioduction 11363.
2. Strains on	The legalization of an industry puts excessive pressure on transportation
Infrastructure	I continue to the engine A correctly of this the transportation of the
in the problems	meterials and finished goods gets delayed. The communication system "
E PARK WERE	the region is also overtaxed. As a result of the strains on infrastructure,
	manatary as well as the real costs of production rise.
3. High Factor	The expensive concentration of an industry in a particular industrial area
Prices	leads to keeper competition among the firms for the factors of production.
	As a result of this, the prices of the factors of production go up. Hence, the
1 10 10 10 10 10 100	expansion and growth of an industry would lead to rise in costs of
	I production 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	then an industry starts to expand for raw materials or
	The increase
	LRATCO Shortagering
mal economis	the market to
mor economis	/ // ITAIL
eut along	Sto products.
urue	
1 RATCZ IS	LRATC,
(external or	
LRATCH	
(INTERPORT	
LRAIFIN	0 autout O
CE TO COM	output, Q

External Economics of Scale – Movement from LRATC → LRACT₁ External Diseconomics of Scale – Movement from LRATC → LRACT₂

4. ECONOMIES OF SCOPE

Definition: These are economies arising when average cost falls as a firm increases output across a range of different products. In this technique, the total cost of producing two products (related or unrelated) is less than the cost of producing each item individually. Economies of Scope focuses on better utilization of the firm's resources and common assets. In this way, the utilization of assets is spread over two or more products, i.e. shared by multiple products to decrease the overall cost of production. As the costs are spread over several products which lead to the decrease in the average cost per unit of each product.

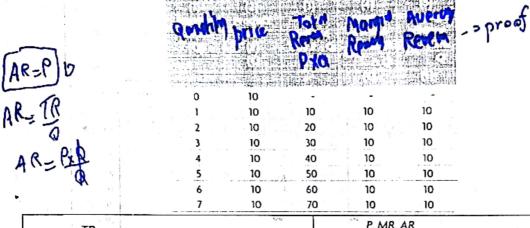
Lecture 4

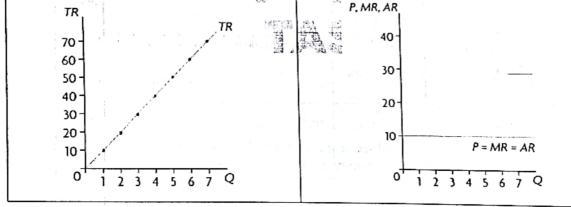
Definition | Revenue: These are payments firms receive when they sell the goods and services they produce over a country.

roduce over a given time period. There are THREE types of Revenues:

they produce over a giv	en time period. There are 1122	٦
Туре	Description the price at which a good is sold (1) by	
1. Total Revenue	Description TR is obtained by multiplying the price at which a good is sold (P) by TR is obtained by multiplying the price at which a good is sold (P) by	-
		\dashv
,	$TR = P \times Q$ Triangle revenue arising	١
2. Marginal Revenue	The firm's marginal revenue (MR) is the additional revenue arising	
2	from the sale of an additional unit of output	
3. Average Revenue	The firm's average revenue (AR) is revenue per unit of output sold.	-
J. Average Revenue	AR-I	ں
	in the state of th	h.,

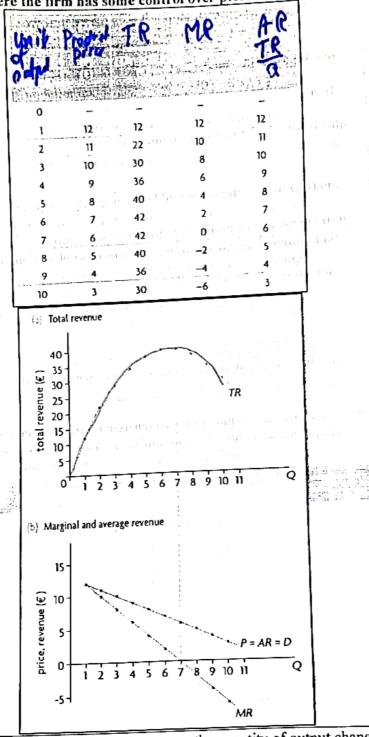
1. Revenue curves where the firm has no control over price





Note: The price at which the good is sold does not change; this occurs only under perfect competition, where the firm has no control over the price at which it sells its product.

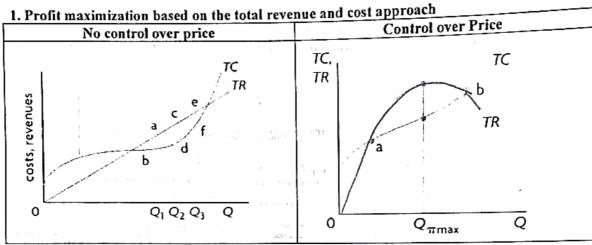
2. Revenue curves where the firm has some control over price



Note: The price at which the good is sold changes as the quantity of output changes. This occurs under all market models other than perfect competition. This is where the firm has control over price.

Definition | Profit Maximization: It involves determining the level of output that the firm should produce to make profit as large as possible. There are TWO approaches to profit maximization:

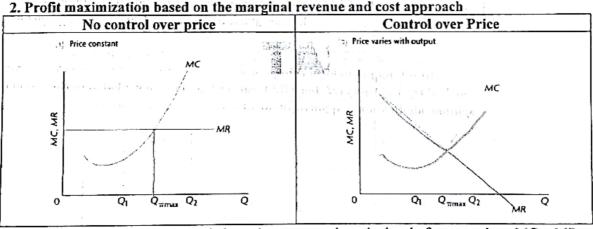
- 1. Profit maximization based on the total revenue and cost approach
- 2. Profit maximization based on the marginal revenue and cost approach



The firm's profit-maximization rule is to produce the level of output where:

TR - TC (= economic profit) is as large as possible.

Profit Maximization Point → TR – TC is maximum

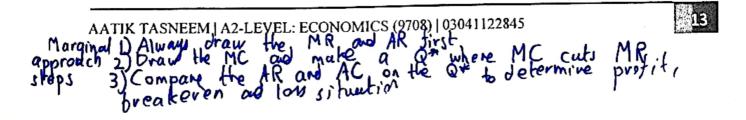


The firm's profit-maximization rule is to choose to produce the level of output where MC = MR. The same rule is used by the firm that is interested in minimizing its loss.

Profit Maximization Point \rightarrow MC = MR

MR > MC -> The additional revenue it would receive (MR) will be greater than its additional cost (MC). It is therefore in the firm's interests to increase its level of output until it reaches Qπmax

 $MR < MC \rightarrow$ The additional revenue it would receive for an extra unit of output is less than the additional cost, and so it should cut back on its Q.



Lecture 5

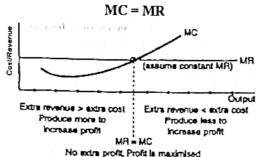
TOPIC 6: PRICE AND OUTPUT DECISIONS 1. MARGINAL AND AVERAGE CONDITION

There are TWO main decisions that the firms have to take in order to maximize their benefits.

1. Output Decision - This is calculated by the marginal condition 2. Profit Decision - This is calculated by the average condition

1. The Marginal Condition | Get the Q*

This shows firms where to produce. In other words it marks the level of output to produce. This would be at a point where the extra revenue (MR) from selling is equal to the extra cost (MC) of

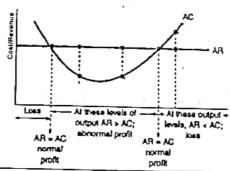


MR > MCThe firm will make extra profit by selling the unit. It should always make units where extra profit can be made. Hence will increase output. MR < MCThe firm will make an extra loss by selling an extra unit. Hence they should cut back on production to maximize profits. Hence will reduce output MR = MCThis is the point where the firm makes maximum profit possible because no extra profit can be made. Hence profit maximizing output.

2. The Average Condition | Profit or Loss

This shows the firm how much profit or loss it is making at a given level of output. Profit is calculated by taking the different between Average Revenue (AR) and Average Cost (AC). This -will give us profit per unit. Total profit can be calculated by multiplying per unit with the number of units.

Profit = AR-AC



AR > AC	If AR > AC the firm is making abnormal profits on each unit.
AR < AC	If AR < AC the firm is making a loss on each unit.
AR = AC	The firm is making normal profits on each unit.

2. SHORT-RUN AND LONG RUN PRODUCTION DECISION

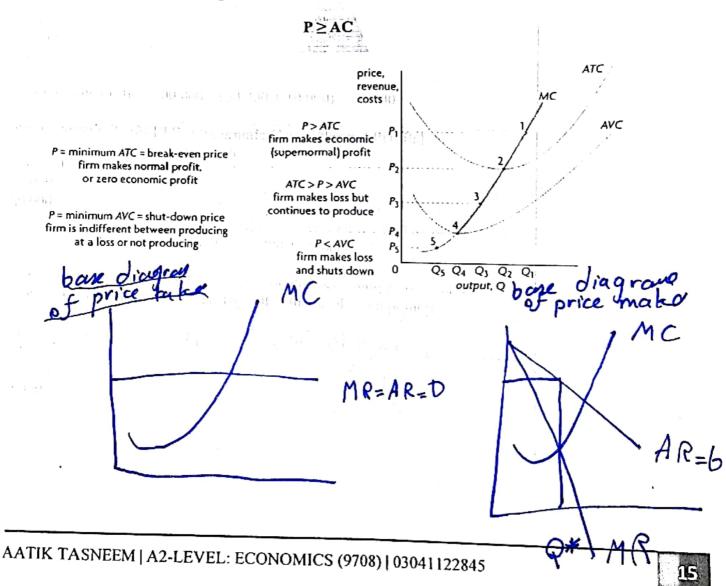
In the short-run a firm will produce where the revenue is greater or equal to the variable cost.

$P \ge AVC$

- In the short-run the firm may stay in the industry even it is making a loss because of fixed costs. In the short-run fixed costs must be paid even if the production is stopped because other factors of production cannot be changed. Example: Even if a firm doesn't produce anything they might still be paying rent. Hence if the firm shuts down it will make a loss equal to its fixed cost.
- If the firm continues production and earns more than the AVC. If the revenue covers more the AVC the firm would be able to cover part of fixed cost, hence covering part of the fixed cost and reducing the loss by producing would be smaller than by closing down.

2. Long-Run Production Decision

In the long-run a firms will produce only if the revenue is greater or equal to the average cost. This is because if the firm is not able to cover its total costs till the long-run it shows that the firm is inefficient and mismanaged and is not able to earn any profits for a long period of time.



Acco & utant &

MCQs

(Para) -> situation no opp. rest

(Para) -> situation no opp. rest

explicit -> cost that accord

supplied -> cost own

supplied -> cost own

AZ/MICRO-INOTESI-CHAPTER 2

The

3. ACCOUNTING AND ECONOMIC PROFITS

Definition | Accounting Profit: An accountant calculates only explicit costs. These include the production expenses and ignores the implicit costs (opportunity cost of production). Hence for an accountant the profit would be:

Accounting Profit = Total Revenue - Total Cost

Definition | Economic Profit: An economist calculates explicit as well as implicit costs. This includes the production expenses as well as the implicit costs (opportunity cost of production). The implicit costs also include payments for entrepreneurship. Hence for an economist the profit would be:

Economic Profit = Total Revenue - (Total Cost + Implicit Costs (Opportunity Cost))

THREE Economic Profit Situations:

Positive Economic Profit | TR > Economic Costs [Abnormal Profits]

Example

Total Revenue = 100,000

Explicit Costs = 50,000

Implicit Costs = 10,000

Economic Profit = 100,000 - (50,000 + 10,000) = 40,000

Zero Economic Profit | TR = Economic Costs [Normal Profits]

Example

Total Revenue = 100,000

Explicit Costs = 50,000

Implicit Costs = 50,000

THE STATE STATE OF THE PROPERTY STATES AND

Economic Profit = 100,000 - (50,000 + 50,000) = 0

Note: The firm in this situation will not shut down even though it is earning zero economic profit, because it is able to cover all its costs. It is also called the break-even point.

Negative Economic Profit | TR < Economic Costs [Loss]

Example

Total Revenue = 100,000

Explicit Costs = 50,000

Implicit Costs = 60,000

Economic Profit = 100,000 - (50,000 + 60,000) = -10,000

Note: The firm in this situation will shut down as it is not able to cover all of its implicit costs.