Lecture - 12 Cabt:

In common usage, the monetary value of inputs used in production of goods and services is cared cost.

In basic economic sense, cost Es measure of alternative opportunities foregone in the choice of one good over the other.

opportunity Cost: What the producer gives rep to use resources to produce goods or services. It is the cost of next best alternatère given cep.

In business, two types of resources are used.

1. Market supplied resources 2. Owner supplied resources Explicit Cost: The opportunity cost of market supplied resources is the monetary payments made to the owners of these resources. This is called explicit cost.

Implicit Cost! The non-monetary opportunity costs of using the owner supplied resources are called implicit cost.

Total economic Cost = Explècèt Cost + Implècèt Cost Other types of Costs!

Fired cost: The costs which don't very with Change in output.

Variable cost: Costswhich depend on the output produced.

Total cost (TC) = Fixed cost t variable cost

Sunk cost: costs which have been in curried but can't be recovered

Economic Profit vs Accounting Profit:

Economic Profèt = TR-Total Economic Cost = TR-Explècèt cost-Implècèt cost Accounting Profèt = TR-Explècèt cost Accounting profèt 7 Economic profèt

Short-ruen Cost:

The cost of inputs used in the Shortrun production is called short-run cost. In the short-run

Q=f(L, K)

1-7 randable input

SOTC= Total Fixed Cost (TFC) + Total variable cost => TC= W.L + i. K

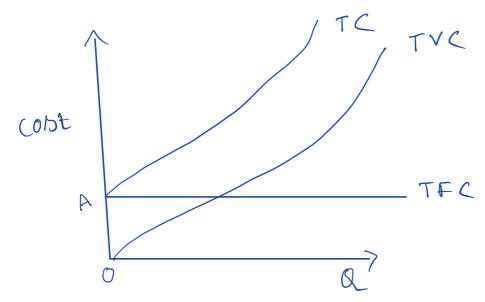
Average cost (AC) = TC/Q

=TFC+TVC/Q

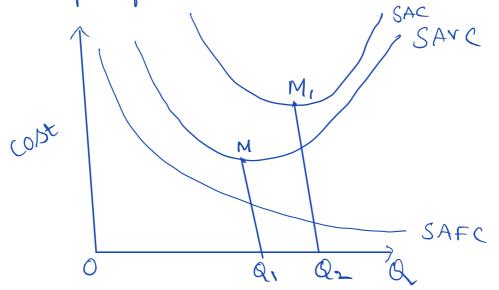
AC = AFC+AVC

MC= gTC

Let us now Look at the short-ruen Cost schedule in order to understand relation between TC, AC&MC. TFC(E) TVC(E) TCCE) AC=TC/Q MC=OTC/OQ 6,000 6,000 0 ()6,000 4,000 10,000 100 40 100 6,000 6,000 12,000 60 20 200 300 | 6,000 | 9,000 | 15,000 | 50 30 400 6,000 14,000 20,000 50 50 500 | 6,000 | 22,000 | 28,000 | 56 80



Shape of the short-run cost curves:



Why the short-run average cost curve to 'u' shaped?

Reasons:

O Graphical

2 Logècal

Graphècal reason!

AC= AFC+AVC

Up to 'oai' level of output bots AFCand AVC fall and hence AC will also fall.

After Oli, Avc is rising and AFC is still falling.

The rese is AVC & the rate of full in AFC and hence between 002+001, SAC is falling.

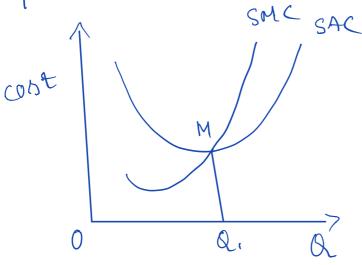
After 002, the rate of rise in AVC is 7 the rate of fall in AFC & hence SAC starts rising.

Thès às how SAC cerve becomes 'U' shaped.

Logical reasoning:

AC = TC/Q In the Short-run, TP (Q) Curve initially risses so Ac falls, when TP is maximum, AC is minum and in stage II, TP falls & this causes AC to rise. Hence SAC curve becomes 'U' shaped. Relation between MC&AC.
MC intervects AC from below.
When

MC < AC, AC WELL JOHN MC 7 AC, AC WELL RISE MC WELL Entervsect AC at êts minémum point.



PROOF

MC = TC = T(AC.Q) = AC+Q DAC

TQ

TQ

Mc will change according to the slope of Ac i.e dAc.

Relation between short-run costs and production:

TVC= W.l TFC = i. K TC= TFC+TVC

Wil is the wage of the labour & thes is the varicable cost in the Short-ruen.

 $SMC = \frac{\partial TC}{\partial Q} = \frac{\partial TVC}{\partial Q}$ (TFC 2's constant)

ORSMC = D(W.1) $= \widetilde{\omega} \frac{\partial l}{\partial \alpha} \qquad MR = \frac{\partial Q}{\partial \lambda}$

SMC= W

Similarly

SAVE -> Short-run average copt SAYC = TYC = W.l = W.l Q

Q = APr

Thus SAVC = $\frac{\omega}{AP}$

In the Short-run productions Cost are inversely related. Mash.