

## **Marginal Costing**

- It is a technique used for managerial decision making.
- This technique recognises only two types of costs i.e. (1) Variable cost and (2) Fixed cost.
- If there is a semi-variable cost, then it needs to be sub-divided into variable and fixed cost separately.

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Behaviour of Cost					
Production	Variab	le Cost	Fixed Cost		
	Per unit	Total	Per unit	Total	
Increase	constant	increases	decreases	constant	
Decrease	constant	decreases	increases	constant	
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## **Break Even Point (BEP)**

- It is the point at which there is no profit or no loss.
- It means, at BEP, Total Contribution = Total Fixed Cost
- Management is interested in knowing BEP, because the first objective of management is to cross BEP.
- A firm starts earning profit only after crossing BEP.
- BEP can be expressed in 3 ways (a) No. of units, (b) Sale Value Or (c) % capacity.

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Sales Qty.	Sales @ Rs. 10	Variable Cost @ Rs. 6	Contribut ion @ Rs. 4	Fixed Cost	Profit	Total Cost
10,000	1,00,000	60,000	40,000	25,000	15,000	85,000
15,000	1,50,000	90,000	60,000	25,000	35,000	1,15,000
Diff. 5,000	50,000	30,000	20,000	NIL	20,000	30,000
Change in Total Cost Variable Cost p.u. =						
Variab	ole Cost p	o.u. = -	Change	e in Tot	al Cost	
Variab	ole Cost p	o.u. = -	Change Change	e in Tot  ge in O	al Cost  utput	
Variab	ile Cost p	o.u. = -	Change Chang	e in Tot  ge in O	al Cost  utput	

Sales	Sales @	Variable	Contribut	Fixed	Profit	Total
Qty.	Rs. 10	Cost @	ion @	Cost		Cost
		Rs. 6	Rs. 4			
10,000	1,00,000	60,000	40,000	25,000	15,000	85,000
15,000	1,50,000	90,000	60,000	25,000	35,000	1,15,000
Diff.	50,000	30,000	20,000	NIL	20,000	30,000
5,000						
Contribution p. u. =						
Contri	bution p.	u. = -	Chang	ge in Pr		
Contri	bution p.	U. = -	Chang	ge in Pr  ige in C	ont  )utput	
Contri	bution p.	u. = -	Chan	ge in Pr 	ont 	

Sales	Sales @	Variable	Contribut	Fixed	Profit	Total
Qty.	Rs. 10	Cost @ Rs. 6	ion @ Rs. 4	Cost		Cost
10,000	1,00,000	60,000	40,000	25,000	15,000	85,000
15,000	1,50,000	90,000	60,000	25,000	35,000	1,15,000
Diff. 5,000	50,000	30,000	20,000	NIL	20,000	30,000
Change in Profit						
P / V Ratio = x 100						00
Change in Sales						
		Cha	inge in e	Julios		
		Cha	nge in e	alos		
		Cha	nge in e			

Sales Qty.	Sales @ Rs. 10	Variable Cost @ Rs. 6	Contribut ion @ Rs. 4	Fixed Cost	Profit	Total Cost	
10,000	1,00,000	60,000	40,000	25,000	15,000	85,000	
15,000	1,50,000	90,000	60,000	25,000	35,000	1,15,000	
Diff. 5,000	50,000	30,000	20,000	NIL	20,000	30,000	
	Change in Cost						
Variab	Variable Cost = x 100						
Ratio Change in Sales							
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## Family of BEP's

There are 4 members in the family -

- 1. Normal BEP : It is the point at which, there is no profit or no loss.
- 2. Cash BEP : It is the point at which, cash profit or cash loss is zero.
- 3. Composite or Overall BEP : It is the point at which, overall profit or loss of multiple products is zero.
- 4. Cost BEP : It is the point at which, total cost under the two alternatives is same.

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## Cost BEP

- It is the point at which the total cost of 2 alternatives is exactly the same.
- Cost BEP is used in decision making between 2 alternatives.
- Below Cost BEP, the alternatives with lower fixed cost is better and above Cost BEP, the alternative with lower variable cost per unit is better.

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## An Example Suppose we have to decide between purchase of 2 vehicles, say a Scooter and a Motorcycle. Annual Fixed Cost for a Scooter is ` 5,000 and variable cost is ` 1.2 per km. Annual Fixed Cost for a Motorcycle is ` 8,000 and variable cost is ` 0.8 per km.

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## Let's calculate Cost BEP Let's assume that annual distance travelled is N kms. at which total cost p.a. is same for both the vehicles.

- Scooter [(N x 1.2) + 5,000] = Motorcycle [(N x 0.8) + 8,000]
- 1.2N 0.8N = 8,000 5,000
- 0.4N = 3,000
- Hence, N = 7,500 kms. p. a.

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Relevant & Irrelevant Fixed OH				
Relevant Fixed OH	Irrelevant Fixed OH			
Specific OH incurred is relevant	General OH or Absorbed OH is irrelevant			
It is avoidable fixed cost	It is unavoidable fixed cost			
It is an incremental fixed cost	It is not an incremental cost			
e.g. depreciation on M/C purchased specially for manufacture	e.g. proportionate factory rent charged to the product			
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- Behaviour of supplier during shortages
- Dependence on outside agency etc.

## **Exploring New Markets**

- When the present market is saturated, then one has to explore new markets.
- If the firm is left with balance capacity, then the incremental cost shall be variable cost, which should be compared with incremental revenue, to take the decision regarding entering in to new market.
- Any special cost or benefit should also be considered in decision making but existing fixed cost should be ignored.

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## **Key Factor Questions**

- It is a manufacturing resource, which is in short supply. It could be limited availability of raw material or machine hours or skilled labour hours etc.
- These limited resources are also known as limiting factors or governing factors etc. because they limit your production and sales activity and thus profitability.
- Our objective shall be to maximise the profit within available limited resources.

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## Steps for solving Key Factor Questions

- · Identify the key factor
- Calculate contribution per unit
- Calculate contribution per key factor
- Assign ranking to each product
- Allocate key resources based on ranking
- The resultant answer is optimum product mix.

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i) Statement of contribution :			
Particulars	Α	В	С
a. Selling Price (Rs./unit)	120	80	200
b. Variable Cost (Rs./unit)	100	70	150
c. Contribution per unit $(a - b)$	20	10	50
d. Material required (kgs. / unit)	1	2	5
e. Contribution per kg. of raw materials (c / d)	20	5	10
f. Priority for manufacture	1	Ш	Ш
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ii) Statement showing a ( i.e. Calculation of C	allocatio Optimum	n of Key F Product	Resources Mix)	j
Particulars	No. of units	Material per unit (Kgs.)	Total Material (Kgs.)	Balance Material (Kgs.)
Total available Raw material				50,000
Less : To be used for maximum demand of A	15,000	1	15,000	35,000
Less : To be used for Maximum demand of C	5,000	5	25,000	10,000
Less : Balance material to be used for B	5,000	2	10,000	
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Particulars	Rs.
Contribution :	
A : (15,000 units x Rs. 20 per unit)	3,00,000
B : (5,000 units x Rs. 10 per unit)	50,000
C : (5,000 units x Rs. 50 per unit)	2,50,000
Total Contribution	6,00,000
Less : Fixed Cost	2,00,000
Maximum Profit	4,00,000
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	Difference Between Absorptio	n Cos	sting & Marginal Costing			
S.N.	Absorption Costing	S.N.	Marginal Costing			
1.	Fixed cost is treated as Product Cost.	1.	Fixed cost is treated as Period Cost.			
2.	Inventory is valued at total cost. (i.e. variable cost + fixed cost)	2.	Inventory is valued only at variable cost.			
3.	Value of stock is higher under absorption costing.	3.	Value of stock is lower under marginal costing.			
4.	Absorption Costing shows higher profits if Production is more than Sales. i.e. absorption costing rewards production.	4.	Marginal Costing shows higher profits if Sales is more than Production. i.e. marginal costing rewards sales.			
5.	It is primarily used for accounting.	5.	It is primarily used for decision making.			
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Step Ladder Cost
• It is a type of semi variable cost, which is partly fixed and partly variable. But the problem is that the fixed and variable parts are not separable from each other.
<ul> <li>This cost remains constant in a particular range and then changes. Then again it remains constant in another range and again changes and so on</li> </ul>
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## Approach

- Whenever there is a step ladder cost given in the question, it cannot be solved using our normal technique. Because, we cannot divide the cost in two parts namely, (a) variable cost and (b) fixed cost.
- Hence, the approach used in solving such question is 'Trial & Error'. You may either treat the step ladder cost as variable cost and try the answer or treat it as fixed cost and then try the answer.

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**Balance Constant & Irrelevant Costing**In these questions, majority of the data is irrelevant for decision making.
Your skill lies in separating relevant data from gecision making.

Relevant Cost	Irrelevant Cost
Future cost or cost to be incurred	Sunk cost or past cost
Avoidable cost i.e. discretionary cost	Unavoidable cost i.e. non- discretionary cost
Cost which changes due to decision	Cost which remains same irrespective of decision
Incremental cost i.e. additional cost	Non-incremental cost i.e. not an additional cost
Specific overheads incurred for the decision	Common or general overheads absorbed
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Relevant & Irrelevant Cost for material lying in stock				
<ol> <li>Historical Cost or Book Value – It is a sunk cost, hence irrelevant.</li> </ol>				
<ol> <li>Realisable Value (i.e. sale value) – It is relevant only if the material has no alternative use.</li> </ol>				
<ol> <li>Replacement Cost (i.e. latest purchase price) – It is relevant only if the material is of regular use and its consumption will necessitate additional purchase.</li> </ol>				
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Profit Price Var. ↓ Sales Price Var. Cost Price Var.	= AQ x (SPPU - APPU) $= AQ x (SSP - ASP)$ $= AQ x (SCP - ACP)$	
↓ Material Cost Var. Labour Cost Var. V.OH Cost Var. F.OH Cost Var.	↓ ↓ = AQ x (SMC – AMC) = AQ x (SLC – ALC) = AQ x (S.V.OH – A.V.OH) = AQ x (S.F.OH – A.F.OH)	)
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Particulars	W.N.	Rs.	Rs.
Budgeted Profit [ 10,000 units x 14.23 ]			1,42,300
Less : Profit Volume Variance	3		(14,230)
Standard Profit [ 9,000 units x 14.23 ]			1,28,070
Add : Favourable Variances :			
Sales price variance	2	11,250	
Labour efficiency variance	7	6,750	
Variable OH efficiency variance	9	1,008	
Fixed OH expenditure variance	10	1,340	
Fixed OH efficiency variance	12	1,935	22,283

Particulars	W.N.	Rs.	Rs.
Less : Adverse Variances :			
Material price variance	4	23,400	
Material usage variance	5	9,000	
Labour rate variance	6	10,125	
Variable OH expenditure	8	1,258	
Fixed OH capacity variance	11	4,085	(47,868)
Actual Profit			1,02,485

Budgets and Budgetary Contr	ol
<ul> <li>Budget is a quantitative plan of action for future period.</li> </ul>	or
<ul> <li>Budgetary control is a technique of exercising overall managerial control with the help of budgets.</li> </ul>	ith
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Standard Costing	Budgetary Control
Stress is on cost control	Stress is on overall managerial control
Micro level control	Macro level control
Doesn't help in coordinating activities	Helps in coordinating various activities

## **Types of Budgets** From examination point of view, you are • generally asked to prepare : 1. Functional Budgets : i.e. Sales budget, Production budget, Purchase budget, Manpower budget, Cash budget etc. and 2. Flexible Cost Budgets : i.e. Calculation of cost at various levels of activities. These are based on marginal costing principles.



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Master Budget

Manpower Budget

Purchase Budget

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## Pricing Decisions & Pareto Analysis

- It is one of the most crucial and difficult decision, which management has to make.
- Growth and profitability of an organisation largely depends upon it's pricing decision.
- Pricing decisions are of two types :
- 1. Pricing for External Customers and
- 2. Pricing for Internal Transfers

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## Pareto Analysis

- It was developed by an Italian Economist called Vilfredo Pareto.
- He was studying the pattern of wealth owned by the people of state of Milan.
- He noticed that 80% of the wealth of Milan was owned by 20% of its citizens.
- He called it as 80 : 20 Rule.

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## Pareto Analysis

- He observed a similar pattern in other states also.
- Then Mr. Pareto applied this observation to other business situations to prove its validity.
- He noticed that with some approximation say 70 : 30 or 75 : 25, it applied to all situations.
- In nutshell, few things are responsible for big results or few reasons are responsible for big problems and so on.

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## Pareto Analysis

- Very often, 80% of consequences flow from 20% of causes, 80% of results come from 20% of effort, the opinion of 20% defines the society, 20% of customers contribute to 80% of our profitability and 80% of the question paper comes from 20% of the syllabus.
- Joseph Juran referred to this 20% as the 'vital few' and the 80% as the 'trivial many'. Focus on the 20% vital few and ignore 80% trivial many to improve the productivity.

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## **Application of Pareto Analysis**

- Here are some business applications of this theory :
- 1. Pricing of product
- 2. Customer Profitability
- 3. Stock Control
- 4. Application in Activity Based Costing

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5. Quality Control









## Important Points for Problem Solving

- The objective should always be to maximise the total profits of the organisation and not of the individual profit center.
- Method of transfer pricing does not affect the overall profit of the organisation, but it only affects the profitability of individual responsibility centers.
- When we buy goods from outside or sale the goods outside, then only the overall profit of the organisation gets affected.

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## Activity Based Costing (ABC) It is an alternative method of charging Factory Overheads. There are 3 methods of charging factory overheads: Single Rate or Blanket Rate Method Departmental Rate Method and Activity Based Costing Method

## **Activity Based Costing Method**

- It is similar to departmental rate method with the only difference that the rates are calculated activity wise instead of department wise.
- Generally, the no. of activities carried out in an organisation are more than the no. of departments.
- Hence, this method leads to more detailed analysis of overheads activity wise.
- This method is considered to be superior to all other methods.
- Overheads are charged more accurately and thus the cost data is reliable for decision making.

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## Steps Involved in ABC Make a list of all activities, which are carried out in

- the organisation.2. Bifurcate the activities in to Primary and Secondary activities.
- 3. Group the cost data activity wise. It is similar to allocation of OH.
- Charge common cost of various activities to each activity, on suitable basis. It is similar to apportionment of OH.
- Charge secondary activity costs to primary activities, on the basis of services rendered. It is similar to re-apportionment of OH.

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Steps Involved in ABC

- 6. Take the total of overheads cost of each Primary Activity. It is known as 'Activity Cost Pool'.
- Divide the total cost by a suitable basis (known as activity cost driver), to calculate overhead recovery rate for that activity (known as activity cost driver rate).
- 8. Use this rate to charge the overheads cost to cost object.

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## Costing in Service Sector (Operating Costing)

This method of costing is used for calculating cost and profitability in the Service industry. E.g. Goods transport, Passenger transport, Hotels, Hospitals, Educational Institutes etc.

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Cost Sheet Format				
Particulars	Total	Per unit		
<ul> <li>A. Variable Cost :</li> <li>B. Semi Variable Cost :</li> <li>C. Fixed Cost</li> <li>D. Total Cost (A+B+C)</li> <li>E. Revenue</li> <li>F. Profit</li> </ul>				
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- (d) Decline
- (e) Deletion

	Total Quality Management (TQM)	
•	The TQM theory is based on a belief that "There is always a scope for improvement, whatever small."	÷
•	This belief, makes you to adjust to the changes in economy, change in technology and so on. In simple words, it causes frequent changes for making further improvement.	n
•	The objective is not to stop at the best performance, but to better the previous bests. This theory believes that, we not only have to satisfy the customer's expectation but we should	4
	exceed his expectation.	
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## **Certain Concepts in TQM**

- Quality Control (QC) : The stress is only on the quality of finished goods produced.
- Quality Assurance (QA) : The stress is on assuring good quality of finished product, that is zero defect policy.
- Quality Management (QM) : The stress is on the entire managerial process, by which the goods are produced and sold.

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Six C's of TQM

- For successful implementation of TQM in an organisation, following are considered to be the essential requirements :
- 1. Commitment : specially form top management
- 2. Culture : TQM is a culture or attitude
- 3. Continuous Improvement :
- 4. Co Operation : total employee involvement
- 5. Customer focus : external & internal both
- 6. Control : i.e. monitoring and supervision

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## Cost of Quality

- The "cost of quality" isn't the price of creating a quality product or service. It's the cost of NOT creating a quality product or service.
- Every time work is redone, the cost of quality increases.
- In short, any cost that would not have been incurred if quality were perfect contributes to the cost of quality.

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## Cost of Quality

- The quality costs are of 4 types i.e.
- (a) Prevention cost
- (b) Appraisal cost
- (c) Internal failure cost and
- (d) External failure cost.

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## Value Chain Analysis This technique views an organisation as a chain of activities which are inter-related to each other. Which means, an organisation is divided in to a number of activities. Then each activity is analysed for cost incurred on it and value added by it.

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# Procedure of Value Chain Analysis Treat all customers i.e. internal as well as external customers as your customers. Arrange for a feedback process, to know how much value your customer receives from an activity. Compare the cost incurred on each activity versus value received by your customer. Identify Value Added (VA) activities and Non Value Activities (NVA). Stop the NVA activities. Some activities which are NVA, but are required to be carried out for the sake of legal compliance, should be continued.

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## **Objectives of Value Chain Analysis**

- 1. Reduce cost without affecting value received by the customer
- 2. Increase Value without increasing the cost
- 3. Reduce cost and simultaneously increase the value received by customer.

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## Just in Time Approach (JIT)

- This approach aims at removal of all possible waste from the system.
- The broad approach is to remove the wastage of resources like men, machine, material etc.
- However, it places more stress on inventory management i.e. Raw Material, WIP and Finished Goods.

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## **Raw Material Management under JIT**

- The company will identify such suppliers of material, who can deliver quality material, just before the start of production.
- The purpose is to have no stock of material and thereby save material management cost.
- Production schedules are shared with the supplier, so that he can supply right quantity of material at right time.

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## WIP & FG under JIT

- Lack of co-ordination between different machine operators, usually result in building up huge inventories of WIP.
- To reduce this inventory, a Kanban Card system may be introduced.
- Kanban Card, is a written instruction passed on by downstream machine operator to upstream machine operator. It specifies the type of input, quantity of input and timing of material needed to upstream machine operator. Thus it helps in better co-ordination between them.

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## Another idea is to produce the goods in small batch size, to avoid overstocking. However, small batch size will lead to more number of batches and thus higher set-up cost. To reduce the set-up cost of machine, a Video Tape approach may be introduced. Under this approach, a video shooting is done while the machine is under set-up. This video tape is shown to skilled engineers and technicians to suggest the improvements in the methods of machine set-up. After 4 to 5 trials, it is observed that the set-up time and set-up cost can be considerably reduced.

WIP & FG under JIT

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## WIP & FG under JIT

- One more method is to have "Small Working Cells". That is 4 to 5 different machines of small capacity can be put in one cell and only one operator is appointed for that cell.
- The operator is trained to handle all the machines in the cell. He can do machine set up, necessary repairs etc.
- Thus the capital investment in machinery is reduced and manpower cost is reduced.
- The machine operator is held fully responsible for his work and he cannot pass on the blame to other.
- If demand picks up later on, then more such working cells can be established, over a period of time. The idea is to avoid huge investment in the initial stage and avoid manpower cost.

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## Material Requirement Planning – MRP I

- It is an automated approach to plan for the material requirement of an organisation. In this approach, Computer and Software is used to do the entire material requirement planning.
- Sales people will feed the data of customer orders booked by them. Like, the quantity to be delivered, place of delivery and time of delivery.
- The software will automatically update, the delivery schedules, packing schedules, production schedules, purchase orders etc., depending upon the time required for each activity.

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## Material Requirement Planning – MRP I

- The concerned clerk or manager will view his schedule on daily basis and will execute the same.
- For smooth functioning of this system, one has to ensure that the pre-requisite information fed in to the system is accurate. Like, Bill of Material, Lead Time, Processing Time, Delivery Time etc.
- Another important thing is to ensure the strict adherence to the schedules.

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## **MRP-II**

- This is the recent development in MRP.
- It says that in addition to planning for material, we need to plan for other resources also like manpower, machinery etc.
- Hence, MRP-II stands for "Manufacturing Resource Planning". Just an extension of MRP-I.

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## **ERP - Enterprise Resource Planning**

- ERP is an integrated software, which covers all the managerial functions of an organisation.
- It is the best gift of Software Industry to this commercial world.
- In today's era of globalisation and competition, it is becoming very difficult to effectively manage the business. Specially, in case of Multinational Companies, whose business operations are spread all over the world, control has become very difficult.
- In such a situation, ERP is the only effective solution, to manage the business.

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## Advantage of ERP Software

- Duplication of work is avoided
- Uniformity in approach, all over the world
- Very quick in consolidation of data
- All business functions are bundled into one software
- Competitive Edge over others

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### **Business Perspective of Balanced Score Card**

- Generally, balanced score card has the following four perspectives from business evaluation point of view.
- 1. Customer perspective : i.e. how do customers see us.
- 2. Internal perspective : i.e. what must we excel at.
- 3. Innovation and Learning perspective : i.e. can we continue to improve and create value.
- 4. Financial perspective : i.e. how do we look to our shareholders.

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## **Benchmarking**

- It is a technique for continuous improvement.
- It involves comparing a firm's product, service or activity against other best performing organisation.
- The objective is to find the difference between our organisation and the best organisation, to know the areas of improvement.

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## Process of Benchmarking

1. Planning : It includes defining the goals, identification of best performance, forming a benchmarking team etc.

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- 2. Collection of data and information
- 3. Analysing the findings
- 4. Recommendations
- 5. Monitoring and Reviewing

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## **Computer Aided Manufacturing (CAM)**

- When manufacturing process is carried out using machinery and integrated software, it is called as computer aided manufacturing.
- It is a process of automation to avoid the chances of error due to human element.
- Production people call it is as CNC machines i.e. Computer Numerical Control machines.
- CNC machines are able to repeat the same operation continuously in identical manner, with high accuracy level.
- The machine operator's job has changed from doing the work to getting the work done from machines with the help of computers.

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# Throughput Accounting This concept is similar to key factor concept of marginal costing. The only difference here is that, all costs other than material cost is treated as fixed cost. Throughput Contribution = Sales - Material cost The objective is to maximize throughput contribution, within available limited resources.



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## **Uniform Costing & Inter Firm Comparison**

- Uniform Costing is not a separate method of costing. In fact, when several undertakings start using the same costing principles and practices, they are said to be following uniform costing.
- Uniform Costing is a pre-requisite for inter firm comparison.
- Inter firm comparison is a technique of evaluation of performance, efficiency, costs and profits of firms belonging to same industry.

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## Uniform Costing & Inter Firm Comparison The purpose of inter firm comparison is to exchange the cost and profit data with each other, to improve the efficiency of each organisation.

- However, in order to make the data comparable, one has to follow Uniform Costing approach.
- There are various areas in cost accounting, where the calculation of cost is different for different organisations. One needs to bring uniformity in the approach of cost calculation to make the data comparable with each other.

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## Some areas of differences

- Method of stock valuation.
- Method of charging depreciation.
- Labour remuneration system.
- Method of allocation and absorption of overheads.
- Method of apportionment of joint cost etc.

Note : Unless the differences in these areas are reconciled and uniform approach to cost calculation is followed, the data is not fit for inter firm comparison.

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