



SNS COLLEGE OF TECHNOLOGY



Coimbatore - 35

23BAT613 – Operations Management

UNIT-I Introduction

System Perspective

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1st Indian Institution To Implement **Design Thinking Curriculum**

Redesigning
Common Mind and
Business Towards
Excellence



RECAP

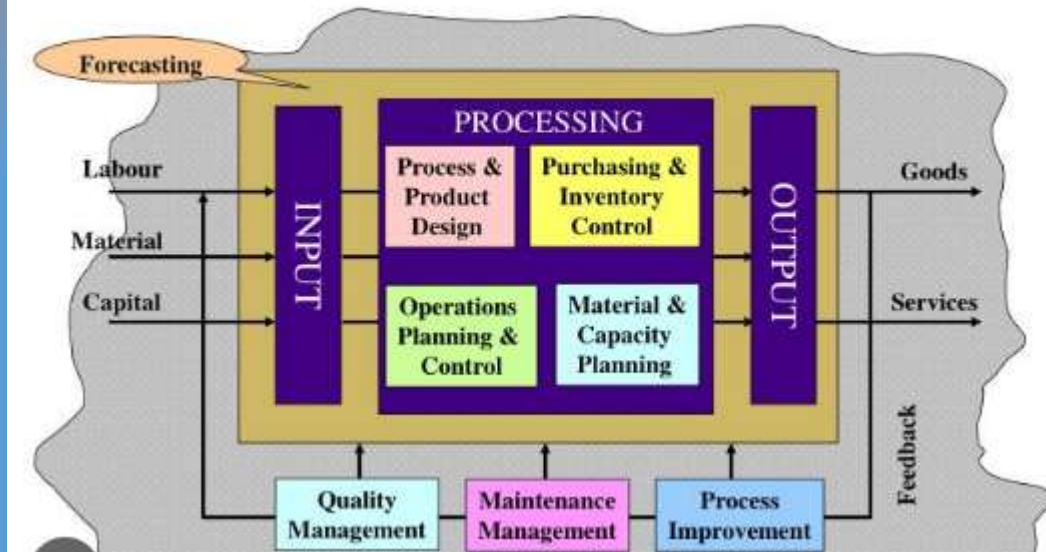
Difference between Goods and Services





TODAY'S TOPIC:

A systems Perspective

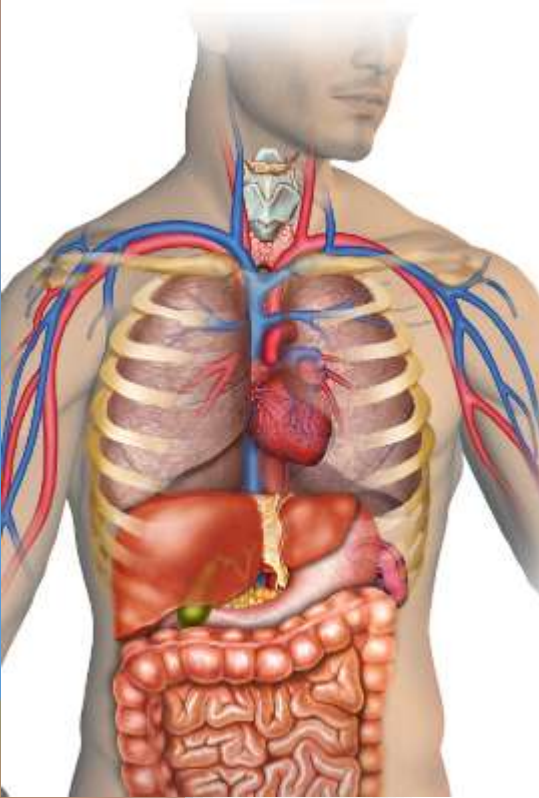


System Perspective





System Perspective



- ▶ Emphasizes the important difference between a disconnected set of parts vs. collection of parts that work together to create functional whole

Though your body is hard to compare to a toilet both are systems





Example

A BMW is considered an ultimate driving machine?

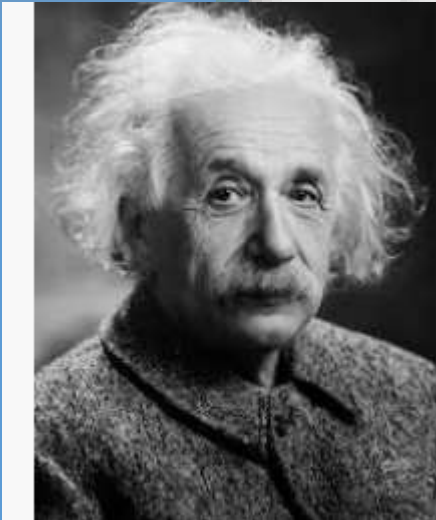


- ▶ Why?
 - ▷ Braking?
 - ▷ Handling?
 - ▷ Its made of all the unique qualities, not just one



Smart people (like ourselves) used this theory

- ▶ Einstein considered systems theory important
- ▶ His theory of relativity transformed how we saw the world



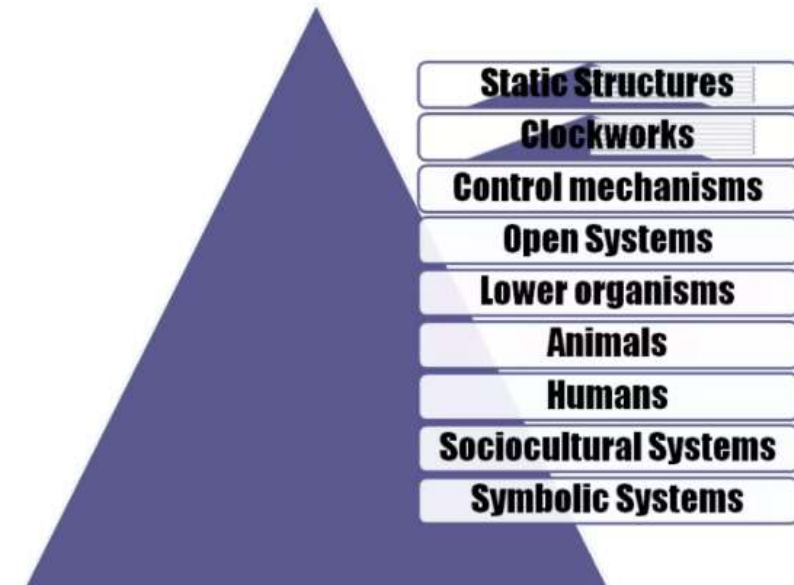
- “Space and time not only affect but also are affected by everything that happens in the universe”



System Perspective

System's environment is everything outside the system boundary that may have an impact on the behavior of the system

Hierarchy of General Systems Theory





System Perspective

- Input: Input into an operation system can be classified in to these categories
- External: Legal Inputs (the companies Act etc,) Economic, Social Technological (Electrolytic cells, power generation machinery etc)
- Market: Competition (HINDALCO, NALCO, BALCO etc.,) customer desires , Product info
- Primary resources – Materials (Alumina, raw aluminum ore), personnel, capital, utilities



System Perspective

- Conversion subsystems:

Ore is transformed into pure aluminum. Transformation process is carried out mainly through electrolytic reduction

Output: Pure Aluminum



REFERENCES

- <https://www.slideshare.net/25Mksp/operations-management-43858144>
- <https://www.slideshare.net/25Mksp/operations-management-43858144>
- <https://theintactone.com/2018/02/21/om-u1-topic-3-systems-perspectives-of-operations-management/>



ASSESSMENT:



Which of the following is an approach of technology for education?

1. Reflective approach
2. Constructive approach
3. Discovery approach
4. System approach





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