

The logo of Galgotias University is a stylized circular emblem with three curved, overlapping bands in shades of yellow, blue, and red, creating a sense of motion or a globe.

Production System
Types of Production System
Production Cycle

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Objective of Session

- To understand the concept of production system
- To familiarize the various types of production system used in manufacturing
- To study the concept of Production cycle and its relative importance in manufacturing & production.

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Production Systems and its components.

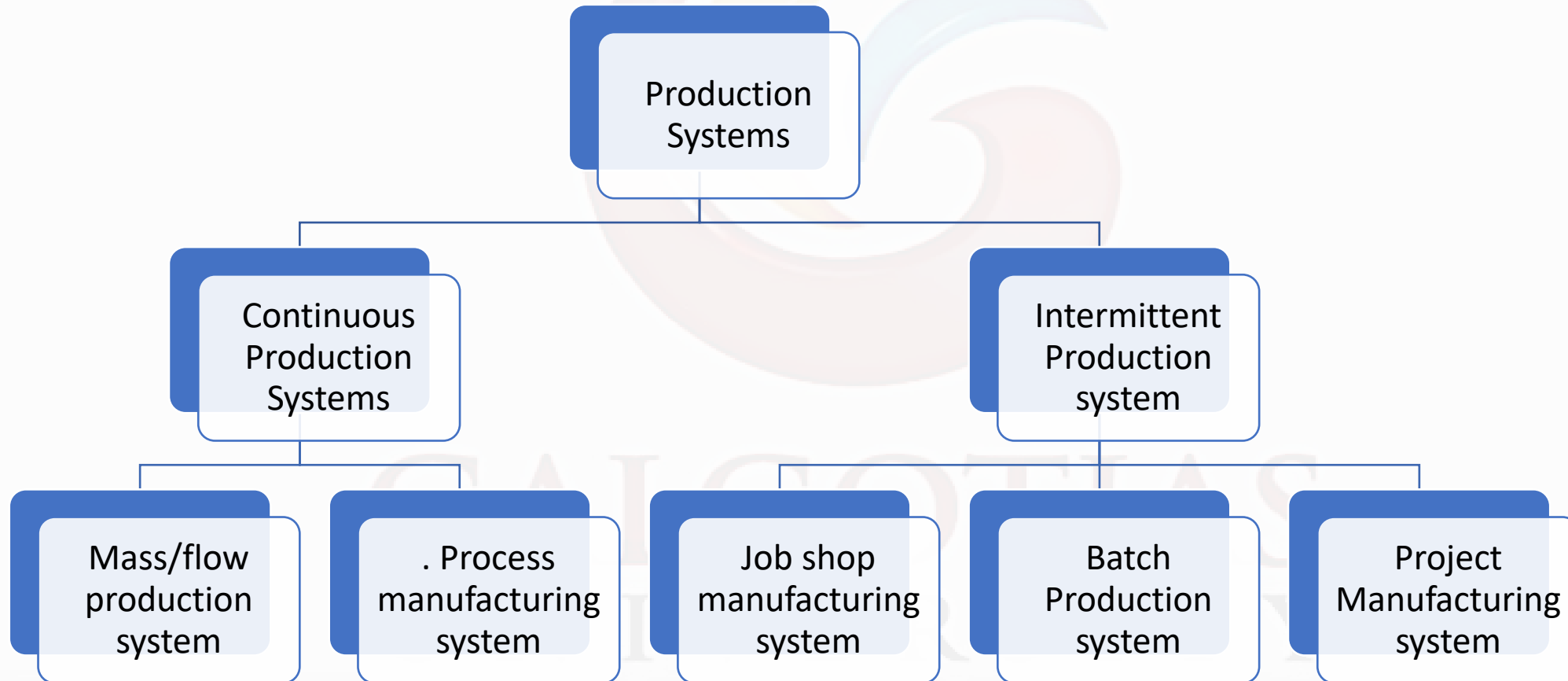
A system in which input is converted to output through a transformation process.

Components of Production Systems:

- Input
- Output
- Transformation Process
- Feedback
- Control system
- Environment

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Types of Production Systems



Continuous Production Systems

- It makes use of special purpose machines and produces standardized items in large quantities.
 - No variety products
 - Order of the customer is not taken into consideration
- Eg: Petrochemical, cement, steel, sugar and fertilizer etc.

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Mass/flow production system

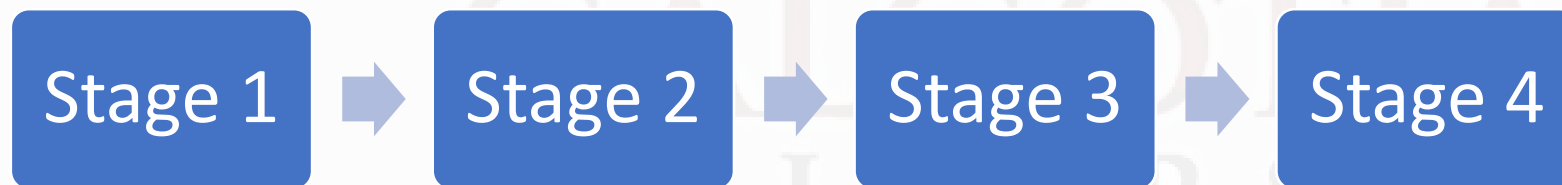
- In this type of continuous production system.
- Only one type of product or a maximum of two or three types are manufactured in large quantities.
- Emphasis is not given to orders of the consumers.
- Standardization of product, process, materials, machine and uninterrupted flow of materials are the main characteristics.

Eg: Electronics, electrical, automobiles, bicycles

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Process manufacturing system

- This system is used for the manufacture of those items whose demand is continuous and high.
- Here, single raw material can be transformed into different kinds of products at different stages of production
- e.g., Processing of crude oil in refinery



Intermittent Production system

- In Intermittent manufacturing systems, the goods are manufactured specially to fulfill orders made by customers rather than for stock.
- Here the flow of material is intermittent.
- Intermittent production systems are those where the production facilities are flexible enough to handle a wide variety of products and sizes.

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Job shop manufacturing system

- This production system is used when low volume and high variety goods.
- These production systems relatively operate in small scale.

Eg: Tailoring shop

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Batch Production system

- The production system used when moderate volume of production and moderate variety.
- Eg: Cookies or cake production

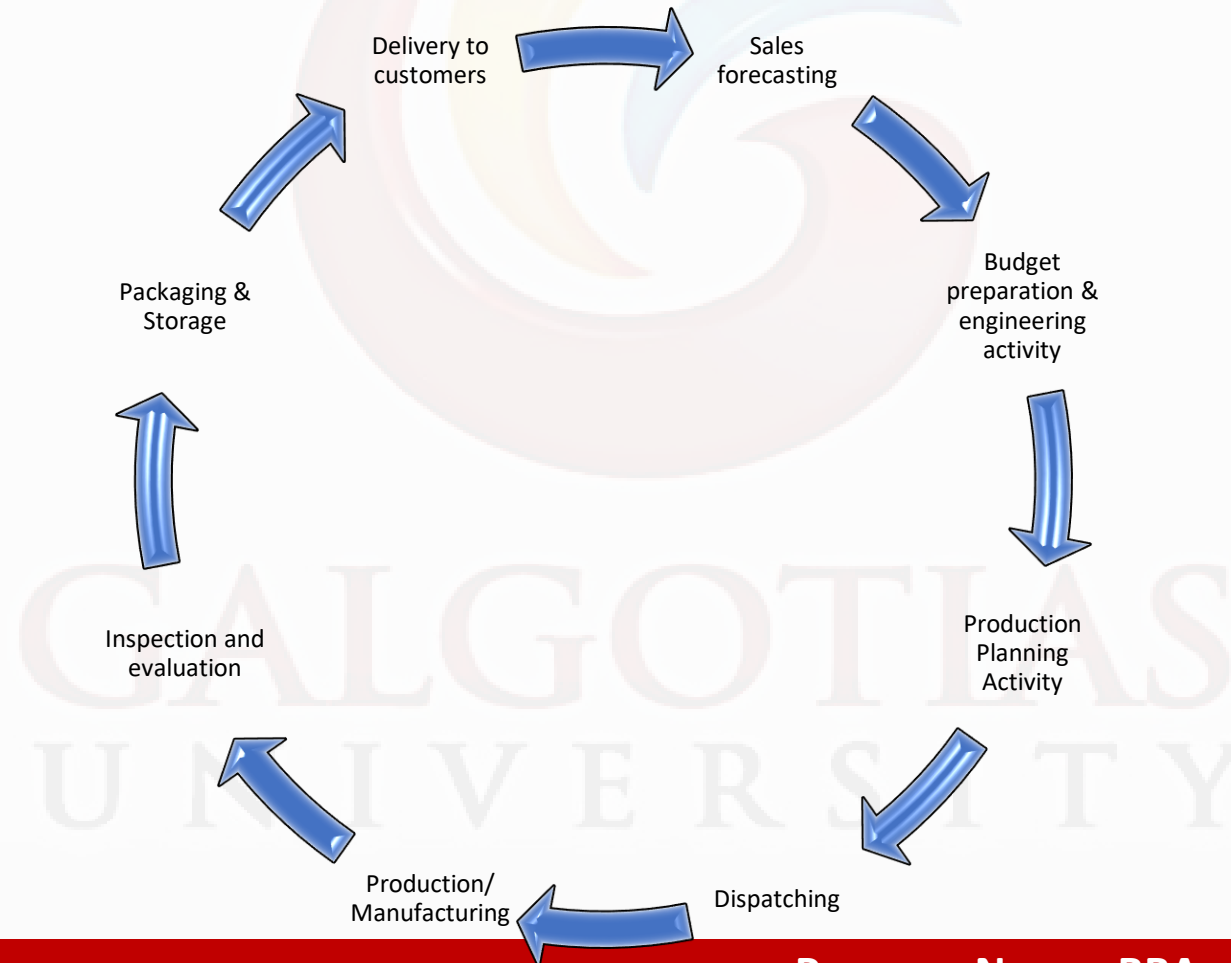
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Project Manufacturing system

- Product remains fixed and material, facilities put work on it
Eg: Construction of ship, Dam etc

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Production Cycle



Production cycle

- Production cycle starts with the customer and ends up with the satisfying needs of the customer by delivering their required product.
- It is a framework which describe how and from where the production started and when the various operations are interrelated and from where it return to the first step where it initiated.

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Steps in production cycle

1. Sales forecasting
2. Budget preparation & engineering activity
3. Production Planning Activity
4. Dispatching
5. Production/ Manufacturing
6. Inspection and evaluation
7. Packaging & Storage
8. Delivery to customers

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