

Concepts of Information Systems and Impact of Information Systems

Part 2

AAT Level II

Information Systems in Digital Environment (ISD)

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Information Systems in Digital Environment

Concepts of information Systems

Lesson 02

Learning Outcome

- Distinguish between DATA ,INFORMATION and KNOWLEDGE
- Characteristics of quality Information
- System Concept
- Business as a System
- Information Systems and its Components

Lecturer

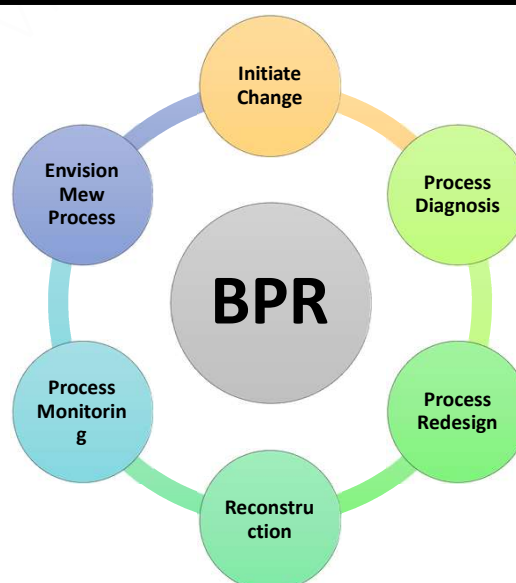


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Business Process Re-Engineering Using IT

Business process reengineering is the act of recreating a core business process with the goal of improving product output, quality, or reducing costs.

Typically, it involves the analysis of **company workflows**, finding processes that are sub-par or inefficient, and figuring out ways to get rid of them or change them.



Why What and How

What exactly we suppose to do ?

What We are doing ?

Why do we do it like this?

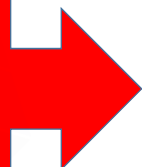
How do we do it sooner?

How can we do it cheaper?

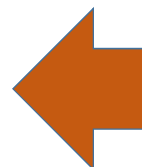
How can we do it better?

BPR with Information Systems

Business
Practice
Introduced
by
Information
System



BPR



Current
Business
Practice

Impact of IS and IT on Finance



Online Banking



Mobile Banking

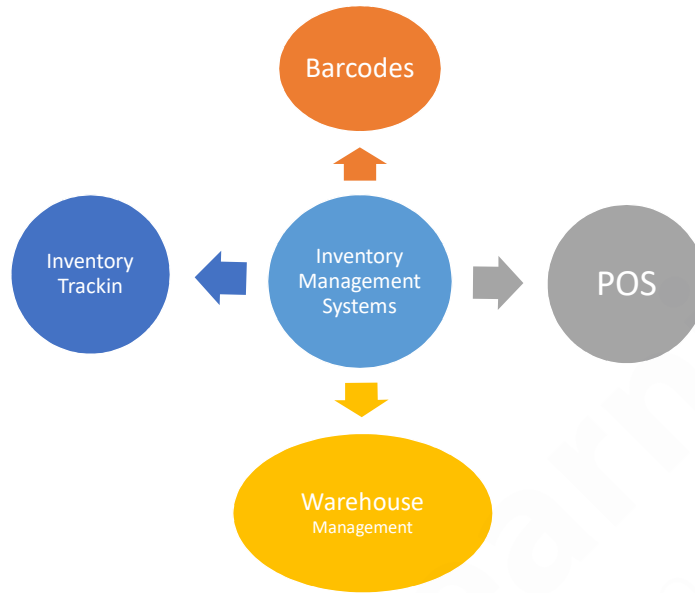


ATM / CDM / KIOSK

Impact of IS and IT on Business Functions



Inventory Management Systems



Management information Systems



Customer Relationship Management



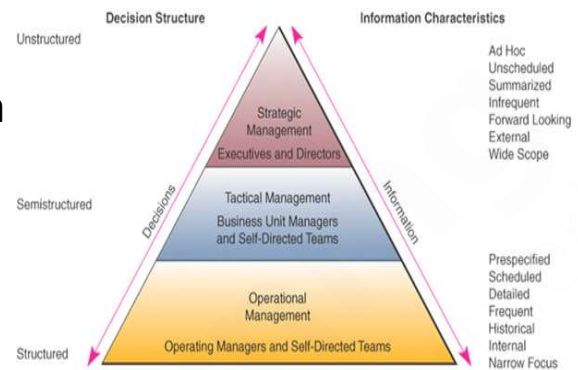
Competitive Advantages

competitive advantage is an advantage over competitors gained by offering consumers greater value, either by means of lower prices or by providing greater benefits and service that justifies higher prices.



Data Analysis

Data analysis is defined as a process of cleaning, transforming, and modeling data to discover useful information for business decision-making. The purpose of Data Analysis is to extract useful information from data and taking the decision based upon the data analysis.



Managerial Levels and IS



Elements of a System

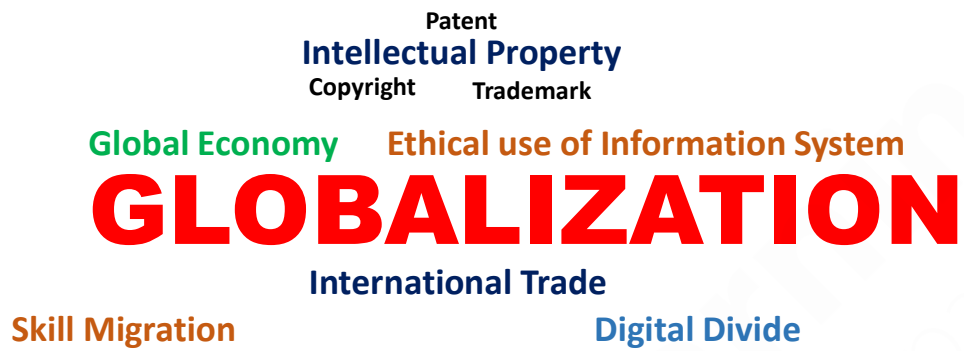
| |
|---|
| Components |
| An irreducible part or aggregation of parts that makes up a system; also called a subsystem. |
| Interrelated components |
| Dependence of one part of the system on one or more other system parts. |
| Boundary |
| The line that marks the inside and outside of a system and that sets off the system from its environment. |
| Purpose |
| The overall goal or function of a system. |
| Environment |
| Everything external to a system that interacts with the system. |
| Interfaces |
| Point of contact where a system meets its environment or where subsystems meet each other. |
| Constraints |
| A limit to what a system can accomplish. |

IT / IS as a driver of Globalization

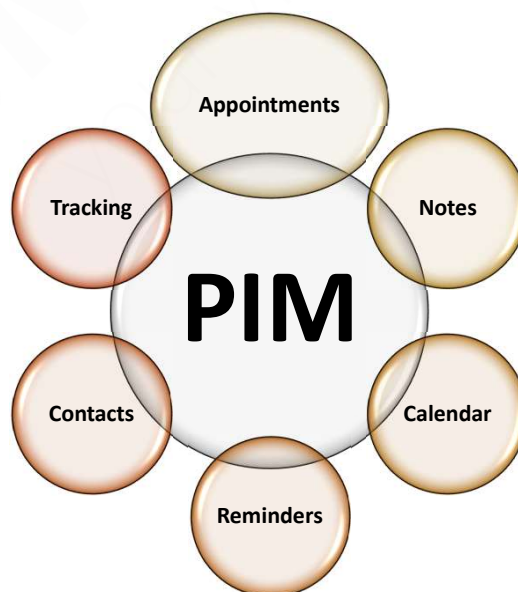
Due to the development of information technology that became a greater influence towards globalization. Globalization is the situation of peoples are interacting without considering their geographical limits and resistant



Popular topics of Globalization



Personal information Management (PIM)



Q & A

DIGEST

Question 01

Select the most correct answer for question No. 1.1 to 1.10. Write the number of the selected answer in your answer booklet with the number assigned to the question.

1.1 You are given the following characteristics of Quality Information:

- | | |
|-------------------|------------------------|
| (a) Relevant. | (b) Understandability. |
| (c) Availability. | (d) Confidentiality. |

Of the above, the correct characteristics of Quality Information are:

- | | |
|----------------------------|-----------------------|
| (1) (a) and (d) only. | (2) (a) and (c) only. |
| (3) (a), (b) and (c) only. | (4) All of the above. |

DIGEST

Question 02

At present, information which plays a vital role in making both organizational and personal decisions. Information systems concern with the quality of information and every organization has many processes built in their systems.

You are required to:

- (a) **List** three(03) differences between data and information. (03 marks)
 - (b) **Explain** two(02) ways in which a supermarket can utilize information technology to improve its business processes. (04 marks)
 - (c) **State** three(03) types of information related to your personal life that can be stored in a smart phone. (03marks)
- (Total 10 marks)