

Unit I — Introduction to Information System Development

Software Engineering and Management | BMB IT 01

Unit I: Introduction to Information System Development

Syllabus: Overview of System Analysis and Design; Business System Concepts; Categories of Information Systems; Strategies for System Development; Implementation and Evaluation of Systems; Managing the Application Development Portfolio.

Exam Blueprint

YAHAN 90% STUDENTS GALTI KARTE HAIN

Ye ek **naya subject code (BMB IT 01)** hai — sirf **2025-26 ka ek hi paper** available hai. Isliye blueprint us paper + syllabus ke contact hours par based hai, na ki 4 saal ke trend par.

Topic	2025-26 paper	Likely marks
Types / categories of Information Systems	Section C (7 marks)	7 & 10
Information System in business decision making	Section C (7 marks)	7
Business process	Section A (2 marks)	2
SDLC and system development strategies	High syllabus weight	7 & 10
System analyst's role	High syllabus weight	2 & 7
Implementation and evaluation	Syllabus	7

YE QUESTION BAAR-BAAR AAYA HAI

2025-26 me Section C ka pehla question hi tha — *"Describe the various types of Information System"* aur *"How is Information System helpful in Business Decision Making?"* Dono Section 3 me detail me hain.

1. System Analysis and Design — Overview

DEFINITION - RATTA MAARO

A **system** is a set of interrelated components working together towards a **common goal** by accepting **inputs**, **processing** them and producing **outputs**.

DEFINITION - RATTA MAARO

System Analysis is the process of **studying an existing system** to understand how it works and what its problems are, and to determine the requirements of the new system. It answers **"WHAT"** the system must do.

DEFINITION - RATTA MAARO

System Design is the process of **planning a new system** — its architecture, modules, interfaces and data — to satisfy the requirements identified in analysis. It answers **"HOW"** the system will do it.

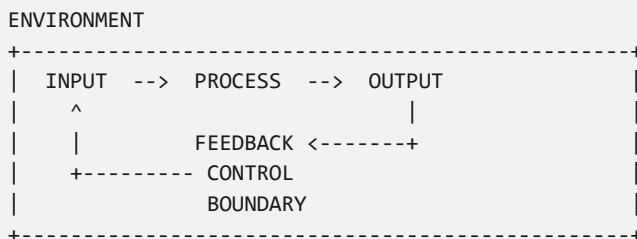
YAAD RAKHNE KA JUGAAD

Analysis = "kya chahiye" (WHAT). **Design** = "kaise banega" (HOW). Analysis pehle, design baad me.

1.1 Characteristics of a System

- **Organisation** — a defined structure and order among components
- **Interaction** — components influence one another
- **Interdependence** — components depend on each other's outputs
- **Integration** — components work as a unified whole
- **Central objective** — one common goal all components serve
- **Boundary and environment** — what is inside vs outside the system
- **Feedback and control** — output is measured and fed back to regulate input

1.2 Elements of a System



1.3 Role of the System Analyst

The system analyst is the **bridge between the users (business) and the developers (technology)**.

Role	What they do
Investigator / Fact-finder	Studies the existing system, gathers requirements
Problem solver	Identifies the real problem and evaluates alternatives
Architect / Designer	Designs the logical structure of the new system
Change agent	Manages resistance and helps users adapt
Motivator	Gains user acceptance and participation
Psychologist / Communicator	Understands people, translates between business and technical language
Project coordinator	Keeps the project on time, in budget and within scope

Skills required: analytical, technical, managerial and **interpersonal** skills.

2. Business System Concepts

DEFINITION - RATTA MAARO