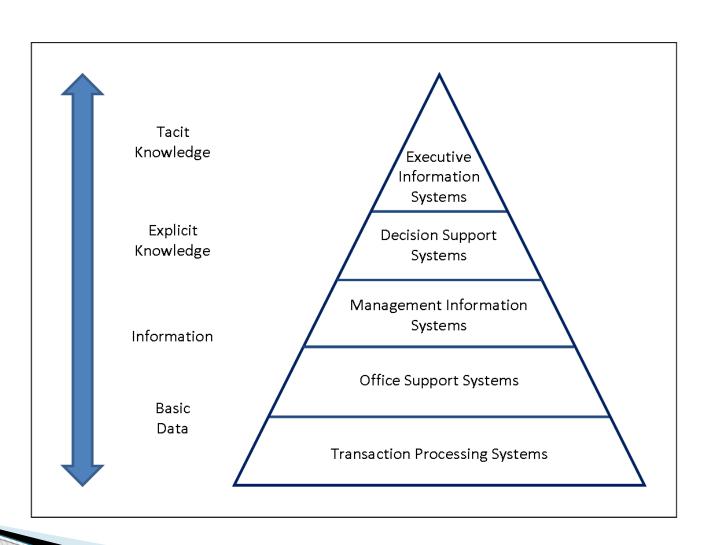
MIS

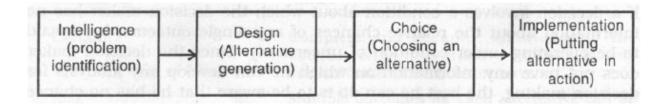
UNIT I

TYPES OF IS



DECISION MAKING PROCESS

INDIVIDUAL DECISION MAKING



ORGANIZATIONAL DECISION MAKING

- Identify the decision to be made.
- Analyze the issue under discussion
- Establish criteria.
- Brainstorm potential solutions.
- Evaluate options and select the best one.
- Implement the solution.
- Monitor and evaluate the outcome.

IT INFRASTRUCTURE FOR ORGANIZATIONS

An IT infrastructure consists of a set of physical devices and soft ware applications that are required to operate the entire enterprise.

- Computing platforms
- Telecommunications services
- Data management services
- BusinessSolutions
- Physical facilities management services
- IT management services
- IT standards services
- IT education services
- IT research and development services

UNIT II

IMPORTANCE OF SYSTEM DESIGN

- User Requirements :
- Computerization _
- Costly process eventual users of information systems to support them in working with technologies in an organizational setting.
- User Interface :
- New technology : _

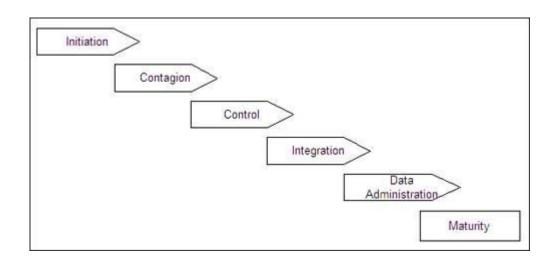
TRADITIONAL APPROACH

- SDLC
- WATERFALL

MODERN APPROACH

- SSADM
- RAD
- SOFTWARE PROTOTYPE
- OOAD

MIS GROWTH MODEL



UNIT III

OLAP – ONLINE ANALYTICAL PROCESSING

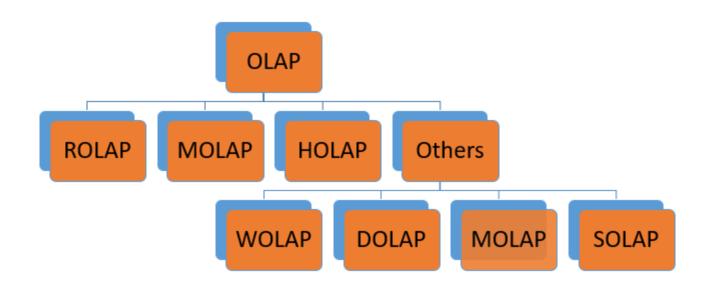
- Online Analytical Processing
- OLAP is a category of software that allows users to analyze information from multiple database systems at the same time. It is a technology that enables analysts to extract and view business data from different points of view. OLAP stands for Online Analytical Processing.

Basic analytical operations of OLAP

Four types of analytical operations in OLAP are:

- Roll-up
- Drill-down
- Slice and dice
- Pivot (rotate)

TYPES OF OLAP



DATA WAREHOUSE AND DATA MINING

DATA MINING AND DATA WAREHOUSE

The term "Data Warehouse" was first coined by Bill Inmon in 1990. According to Inmon, a data warehouse is a subject oriented, integrated, time-variant, and non-volatile collection of data.

Data Warehouse Applications

- Financial services
- Banking services
- Consumer goods
- Retail sectors
- Controlled manufacturing

Types of Data Warehouse

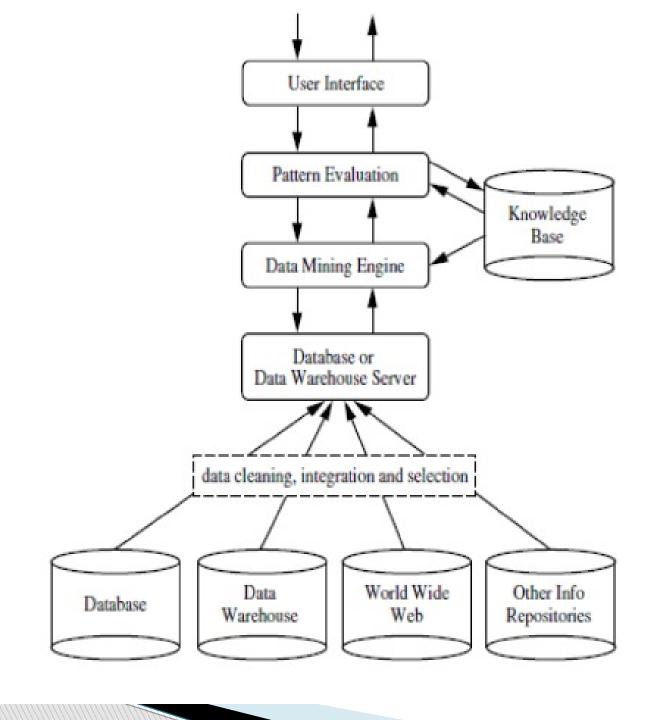
- Information processing,
- analytical processing,
- data mining

DATA MINING

Data mining refers to extracting or mining knowledge from large amounts of data. The term is actually a misnomer.

The key properties of data mining are

- Automatic discovery of patterns
- Prediction of likely outcomes
- Creation of actionable information
- Focus on large datasets and databases



UNIT IV

OPERATIONAL

General Ledger
Fixed assets
Sales order processing
Accounts Receivable
Accounts Payable
Inventory control
Purchase order processing
Payroll

PRODUCTION INFORMATION SYSTEM

OPERATIONAL

Purchasing
Receiving
Quality Control
Cost Accounting
Materials management
Inventory control
Materials handling
CAD
CAM
Image Management
Material selection
Shop floor scheduling

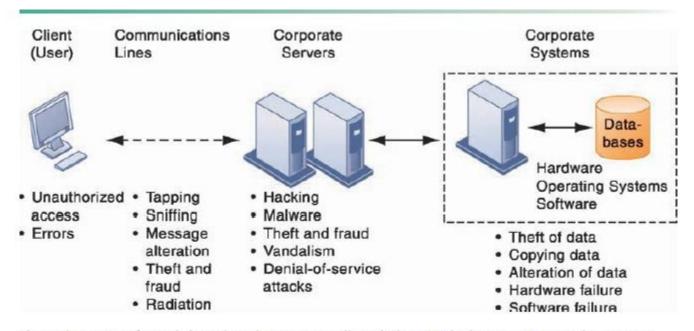
MARKETING INFORMATION SYSTEM

OPERATIONAL

sales force automation
Prospect information
Contact Management
Micro marketing
Tele Marketing
Direct Mail
POS(Point of Sales)
Delivery tracking
Virtual shopping
Electronic shopping

UNIT V

CONTEMPORARY SECURITY CHALLENGES AND VULNERABILITIES



The architecture of a Web-based application typically includes a Web client, a server, and corporate information systems linked to databases. Each of these components presents security challenges and vulnerabilities. Floods, fires, power failures, and other electrical problems can cause disruptions at any point in the network.

MALICIOUS SOFTWARES

VIRUS

WORMS

TROJAN HORSE SPYWAR E SQL INJECTION ATTACKS



EXTERNAL

	MACKING
	*SPOOFING AND SNIFFING
	+DOS
	*IDENTITY THEFT
	*PHSHING
	*PHARMING
	*CLICK FRAUD

INTERNAL

*EMPLOYEES

*SOCIAL ENGINEERING

*SOFTWARE VULNERABILITY

GLOBAL

•CYBERWARFARE

•CYBERTERRPRISM

INFORMATION SYSTEM SECURITY CONTROL

SECURITY CONTROL

GENERAL CONTROL

APPLICATION CONTROL

GLOBAL INFORMATION SYSTEM



IS AUDIT

- An information system (IS) audit or information technology(IT) audit is an examination of the controls within an entity's Information technology infrastructure.
- . Regarding the protection of information assets, one purpose of an IS audit is to review and evaluate an organization's information system's availability, confidentiality, and integrity by answering the following questions:
- Will the organization's computerized systems be available for the business at all times when required? (Availability)
- Will the information in the systems be disclosed only to authorized users? (Confidentiality)
- Will the information provided by the system always be accurate, reliable, and timely? (Integrity).

STEPS:

AUDIT PLANNING RISK ASSESSMENT PERFORMANCE OF AUDIT REPORTING