

A sample MIS

MIS for Education System (Dec 2019)

Features of Education Management Information System:

Better Communication with Students: With the help of the Education Management Information System, students can **receive individual messages or group messages**. It can be helpful when there is an important announcement to be made on short notice regarding class rescheduling or an upcoming deadline.

Better Communication with Other stakeholders: Industry, recruiting companies, placement activities (**Role of social media in boosting perceptions**). Websites and portals. Accreditation authorities like NBA and NAAC require documented evidences for teaching & learning, research, quality of projects, quality of student placements, and intake – these documents can be maintained by a proper **ERP software**

Better Communication with Parents: An Education Management Information System can simplify the communication between parents and teachers, and school administrators. It can be easily done with the help **of instant messaging and mass communication (Social Media)**. With the use of EMIS, parents can be informed about important events and regularly updated about their child's academic progress.

Management of Fee Collections: Fee collection can be made easy with the help of the Educational Management Information System, as it generates automatic alerts to inform school administrators and account managers of missed or late payments. An easier way for fee collections is implementing a **semi-automated or automated payment management system**.

Enquiries and Admissions Management: With the help of the Education Management Information System, the most commonly asked questions and enquiries regarding admissions can be easily answered using automated solutions (**chatbot**). This can free up a lot of time and resources which can be allocated elsewhere.

Examination Management: An Education Management Information System can be useful **for planning, scheduling, and informing important information about exams by using scheduling and communication tools (ERP software)**. It can also be used to publish exam results that can be accessed by the students and teachers. Further detailed reports can be created using this data, and based on this, student performance can be tracked.

Student Information Dashboard: This feature (**dashboard**) helps teachers and parents to access essential information on students' academic activities quickly and easily. This may include fee attendance records, exam results, payment history, and general academic progress. The simplified communication tools of the system will help in better communication of students and parents with teachers.

Attendance Management: With the integration of the Education Management Information System, attendance tracking and its management (**ERP solutions**) and be entirely automated. Teachers and school administrators do not need to track

attendance manually but simply evaluate automatically generated reports and check where there are issues.

Lesson Plans & Assignments: An Education Management Information System makes it easy for teachers to share assignments and lesson plans with students and their parents in advance.

Database and Information management:

Sample databases are:

- Student data, (name rollNo Address, , contact information, marks obtained, calculated information like CGPA....)
- Faculty data: Name, Department, experience, Qualification, Areas of interest, research etc)
- Placement data: Year, Company, no of students, CTC
- Examination data: Exam time table, examiner names, remuneration, student registration etc
- Payroll: Employee name, designation, Basic pay, tax, PF,...

MIS in Manufacturing Sector

Indian Manufacturing Sector

- According to India Brand Equity Foundation, India's manufacturing sector contributes about 16% to GDP
- India was ranked the 4th most competitive manufacturing nation in Deloitte's Global Index for 38 nations
- India's manufacturing sector can reach US\$ 1 trillion by 2025, as predicted by McKinsey & Co.

1. **Transaction Processing System:** A transaction process system (TPS) is an information processing system for business transactions involving the collection, modification, and retrieval of all transaction data. Characteristics of a TPS include performance, reliability, and consistency.

MIS of Toyota (**an example taken here**) enables the gathering of huge amounts of business information, and offers a significant time saving advantage to the employees

- ❖ MIS enables quick decision making and more immediate reflexes for the company
- ❖ To attain effective MIS, Toyota's planning procedure involves taking into account the MIS needs at the strategic levels
- ❖ Functional aspects of **TPS (Transaction Processing system)** in **Toyota (an example taken here)** as
 - Import management system
 - Stores management system
 - Sales system

General MIS in any Manufacturing sector have these IS

- Production management
- Personnel management
- Financial management
- Material management
- Marketing management

Most important MIS modules in a manufacturing business are:

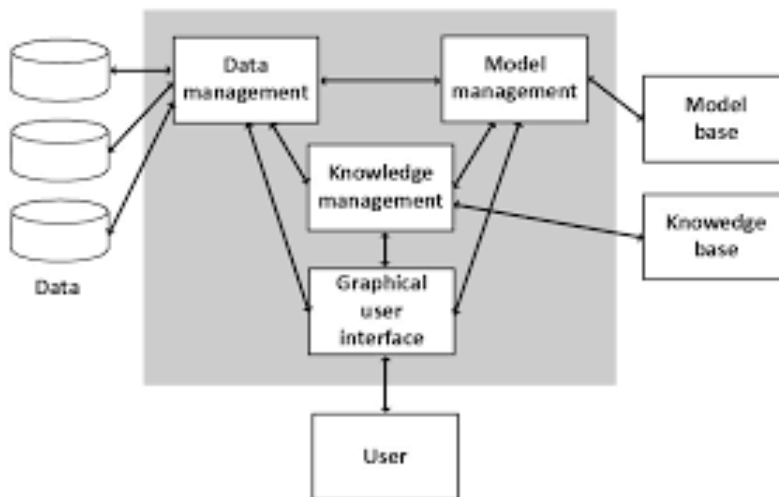
- MIS in Finance (Budgeting, stocks, projections.... **ERP solutions**)
- MIS in Marketing (Customer support, Competitive strategies, Advertising**Role of social media**)
- MIS maintaining Quality (**Social Media** for feedbacks and customer support)

MIS should produce **reports** and data of various forms like:

- MIS give critical data like which machine did not operate, the operator and the real time situations when it malfunctioned
- Toyota utilizes a variety of these affordable, highly dependable management information systems throughout its production process to stop defects.
- Suppliers can monitor this information in real time, including release schedules, receipts, and other important information
- monitor the assembly process in real time.

- **Jidoka** tracks the production verification and consumption information consistently
- Parts utilized in the production are removed from the stock list, and costs are presented to detail the value of work in process
- MIS help the organization to reduce order-to shipment period, enhances its supply chain activities
- Toyota started to implement **SAP software system** which also provides financial information to the finance department of the company and its concerned personnel
- The people of the finance department of Toyota analyzes previous and current financial figures, anticipates future financial outputs, **using SAP**
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2. Decision Support System



- A DSS is a computer- based information system that supports business or organizational decision- making activities.
- A DSS is a collection of integrated software applications and hardware that form the backbone of an organization's decision making process and help to make decisions, which may be rapidly changing and not easily specified in advance

3. Toyota uses **Warehouse Management System** as its Decision Support System.

It is used due to the fact that knowledge generated of it is used in decision making process.

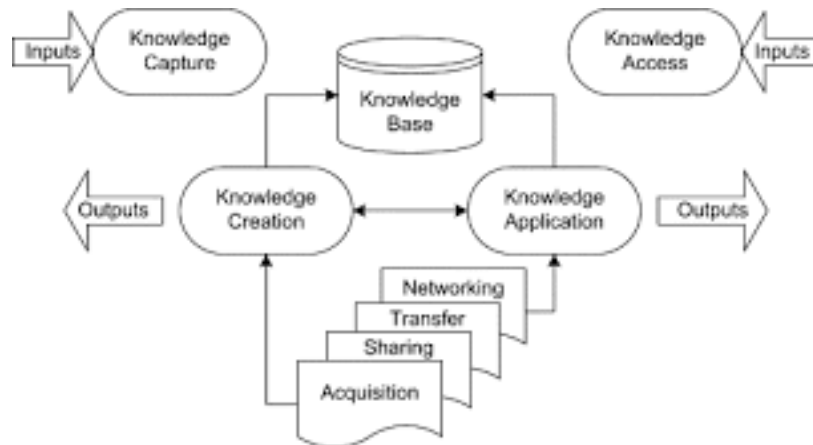
It primarily aims to:

- Control the movement and storage of materials within a warehouse.
- Process the associated transactions , including shipping, receiving, put away and picking.

Toyota Warehouse System combined with the logistics equipment of Toyota Material Handling Company, they are able to provide customers with optimized logistics solutions at their worksite. Decision Support System

4. Knowledge Management System

The knowledge management cycle describes the way in which knowledge is captured , processed and distributed in an organization.



5. STRATEGIC INFORMATION SYSTEM

SIS is an information systems used to prepare strategies that changes the goals, processes or products to help organization gain competitive advantage.

Example: Two competitive strategies adopted by Dell: Differentiation as competitive advantage for DELL

- Dell computers best known for distribution
- No middle men
- Customers can log on to the site from anywhere and provide specifications for computer hardware they require.

Wireless Application Protocol Wireless Application protocol (WAP) provides speed as a competitive advantage for DELL, allows people to react immediately from virtually any place in the world Source

6. Databases:

- Employee & shift details
- Material & store data
- Payroll
- Supplier Information
- Logistics information