

## UNIT III

### ERP MODULES

Business modules in an ERP Package- Manufacturing, Human Resources, Plant Maintenance, Materials Management, Supply chain Management (SCM), Sales and Distribution.  
Case Study in Banking Sector.

#### 3.6 Functional Modules of ERP Software

Common ERP modules include modules for product planning, parts and material purchasing, inventory control, product distribution, or dertracking, finance, accounting, marketing, and HR. Organizations often selectively implement the ERP modules that are both economically and technically feasible.

FIGURE:2.2 FUNCTIONAL MODULE



### **ERP Production Planning Module**

In the process of evolution of manufacturing requirements planning (MRP) II into ERP, while vendors have developed more robust software for production planning, consulting firms have accumulated vast knowledge of implementing production planning module. Production planning optimizes the utilization of manufacturing capacity, parts, components and material resources using historical production data and sales forecasting.

### **ERP Purchasing Module**

Purchase module streamline procurement of required raw materials. It automates the processes of identifying potential suppliers, negotiating price, awarding purchase order to the supplier, and billing processes. Purchase module is tightly integrated with the inventory control and production planning modules. Purchasing module is often integrated with supply chain management software.

### **ERP Inventory Control Module**

Inventory module facilitates processes of maintaining the appropriate level of stock in a warehouse. The activities of inventory control involves in identifying inventory requirements, setting targets, providing replenishment techniques and options, monitoring item usages, reconciling the inventory balances, and reporting inventory status. Integration of inventory control module with sales, purchase, finance modules allows ERP systems to generate vigilant executive level reports.

### **ERP Sales Module**

Revenues from sales are live blood for commercial organizations. Sales module implements functions of order placement, order scheduling, shipping and invoicing. Sales module is closely integrated with organizations' ecommerce websites. Many ERP vendors offer online storefront as part of the sales module.

### **ERP Marketing Module**

ERP marketing module supports lead generation, direct mailing campaign and more.

### **ERP FinancialModule**

Both for-profit organizations and non-profit organizations benefit from the implementation of ERP financial module. The financial module is the core of many ERP software systems. It can gather financial data from various functional departments, and generates valuable financial reports such balance sheet, general ledger, trail balance, and quarterly financial statements.

### **ERP HRModule**

HR (Human Resources) is another widely implemented ERP module. HR module streamlines the management of human resources and human capitals. HR modules routinely maintain a complete employee database including contact information, salary details, attendance, performance evaluation and promotion of all employees.

### **Supply Chain Management (SCM):**

SCM can help you transform a traditional linear supply chain into an adaptive network with the following benefits.

- With the increased visibility into the supply chain and adaptive supply chain network, you can be more responsive. You can sense and respond quickly to changes and quickly capitalize on new opportunities.
- By offering a common information framework that supports communication and collaboration, SCM enables you to better adapt to and meet customer demands.
- You can track and monitor compliance in areas as environment, health and safety.
- Information transparency and real-time business intelligence can lead to shorter cash-to-cash cycle times. Reduced inventory levels and increased inventory turns across the network can lower overall costs.
- With SCM, you can lower operational expenses with timelier planning for procurement, manufacturing and transportation. Better order, product and execution tracking can lead to improvements in performance and quality - and lower costs. You can also improve margins through better coordination with business partners.
- Tight connection with trading partners keep your supply chain aligned with current business strategies and priorities, improving your organization's overall performance and achievement of goals.