



B.Com Honours

Semester V

Calicut University

BUSINESS INFORMATION SYSTEM

Course Code: COM5EJ308 • Module 4 Notes

Module IV: Enterprise Resource Planning (ERP) Systems

Covers enterprise resource planning concepts, core business functional modules, ERP implementation lifecycle phases, software platforms (SAP, Oracle, Tally ERP), and adoption challenges.

Unit 12: Enterprise Resource Planning (ERP) Concepts & Benefits

ERP: Integrated enterprise software system automating and unifying core cross-functional business processes across a single centralized database. Need for ERP: Replacing legacy departmental silos with real-time operational transparency. Core Functional Modules: Financial Accounting (FI/CO), Human Capital Management (HCM), Supply Chain Management (SCM), Customer Relationship Management (CRM), & Production Planning (PP). Benefits: Reduced lead time, improved inventory turnover, standardized data, and global compliance.

Unit 13: ERP Software, Implementation Lifecycle, & Challenges

Leading ERP Packages: SAP S/4HANA, Oracle NetSuite, Microsoft Dynamics 365, & Tally Prime. ERP Implementation Lifecycle Phases:

- 1. Requirements & Gap Analysis:** Evaluating business workflows vs standard ERP processes.
 - 2. Customization & Data Migration:** Cleansing legacy data and configuring ERP modules.
 - 3. Go-Live & Post-Implementation Support:** User training, system cutover, & continuous optimization.
- Issues & Challenges: High initial capital outlay, employee resistance to change, data migration errors, & scope creep.

Practical Case Framework 1 (Core ERP Functional Modules Integration Matrix): Detail business functional modules, operational data inputs, and cross-functional integration outputs.

ERP Functional Modules Architecture Table:		
ERP Module	Core Business Functionality	Cross-Module Integration Linkage
Financial Accounting (FI)	General Ledger, AR/AP, Financial Statements	Integrated with Sales (SD) & Procurement (MM)
Materials Management (MM)	Procurement, Inventory Valuation, Purchase Orders	Updates General Ledger & Production Planning
Sales & Distribution (SD)	Order Entry, Delivery Shipping, Invoicing	Triggers Inventory debit & Accounts Receivable credit
Human Capital (HCM)	Payroll, Attendance, Performance Appraisal	Disburses payroll directly to FI Accounting Ledger

Practical Case Framework 2 (ERP Implementation Lifecycle Phases Matrix): Map implementation phases, key

deliverables, risk factors, and project management controls.

ERP Implementation Lifecycle Execution Table:

Implementation Phase	Key Phase Deliverable	Primary Risk Factor & Mitigation
1. Project Planning & Scoping	Charter approval & Steering Committee formation	Unclear scope; mitigate with executive alignment
2. Business Blueprint (AS-IS / TO-BE)	Gap Analysis & Process Design Documents	Process mismatch; customize standard ERP flows
3. Realization & Data Migration	Configured ERP instance & cleansed Master Data	Corrupt legacy data; perform data audit dry-runs
4. Go-Live & Support	System Cutover & User Operational Transition	User resistance; intensive change management training

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