

**FACULTY OF COMPUTER APPLICATIONS**  
**Bachelor of Computer Applications**

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- **Sem.** : 3
- **Subject Code** : 05BC3303
- **Subject** : Enterprise Resource Planning (ERP)
- **Course Objectives** :
  1. Describe the terminologies of ERP with its model along with practical case study.
  2. Provide awareness about the ERP concepts and the technologies.
  3. To emphasize the requirements of ERP packages in different industrial domains.
  4. To develop basic skills of the students about importance of ERP to enriches the overall growth of the business organizations.
  5. To prepare the students technological competitive and make them ready about modernize Business Processes.
  
- **Prerequisites** : Basic knowledge of business process.

<b>Unit No</b>	<b>Topics Covered</b>	<b>No of lectures required</b>
<b>1</b>	<b>Introduction to ERP</b> Overview and Definition of ERP, Need of ERP, History of ERP Application, Advantages of ERP system, ERP Enterprise Applications, Emerging Trends. <b>ERP Implementation:</b> ERP Life Cycle, Methodology for Implementation. Benefits of ERP Implementation, Implementation Strategies.	<b>08</b>

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<b>2</b>	<p><b>ERP Project Team and Project Organization Structure</b> Project Organization Structure, Roles and Responsibilities of members, Core Team Selection, Consultant Selection</p> <p><b>ERP Project Management</b> Project Scoping, ERP Implementation Project Plan, Resource Plan, Project Charter, Project Risk Management.</p> <p><b>ERP Package Selection</b> ERP Selection – A Two Step Process</p>	<b>10</b>
<b>3</b>	<p><b>ERP Modules - 1</b> Overview of Human Resources Management, Financial Management, Procurement and Inventory Management</p>	<b>7</b>
<b>4</b>	<p><b>ERP Modules – 2 Technologies:</b> Supply Chain Planning , Customer Relationship Management,</p> <p><b>Technologies :</b> Data Warehousing, Data Extraction, Transformation using Cleaning, Data Loading, Online Transaction Processing (OLTP), Online Analytical Processing (OLAP)</p>	<b>10</b>
<b>5</b>	<p><b>ERP for Industries:</b> <b>ERP for manufacturing Industry:</b> ERP for petroleum, GAS companies, ERP for Automobile Industry, ERP for Pharma, ERP for FMCG. <b>ERP for Service Industry:</b> ERP for retail, ERP for healthcare, ERP for Educational Institution, ERP for banks.</p>	<b>10</b>

**Course Outcomes :**

1. Students will be able to understand basic model of ERP and its terminologies.
2. Students will be able to aware about ERP implementation strategies and methodologies.
3. Students will be able to understand various ERP Modules of business.
4. Students will be able to gain skills and knowledge about ERP technologies.
5. Students will be able to understand importance of ERP in service and manufacturing industries.

Course Outcomes – Program Outcomes Mapping Table :

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
CO1	L			L		M		H
CO2		M		H	M		L	
CO3	M		H			L		M

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CO4		L		L	H		M	
CO5	M	H		H		M		H

**Text Book :**

1. "Enterprise Resource Planning, Text and Cases ", Rajesh Ray, TMH, First Edition

**Reference Books :**

1. David L. Olson, "Managerial issues of Enterprise Resource Planning systems" Of TMH Edition 2004.
2. Ellen Mon, Bret Wagner "Concepts in ERP", Second Edition of Cengage Learning.
3. Ashim Raj Singla " Enterprise Resource Planning", of Cengage Learning, First Edition

**Web References :**

**[https://en.wikipedia.org/wiki/Enterprise\\_resource\\_planning](https://en.wikipedia.org/wiki/Enterprise_resource_planning)**

**Syllabus Coverage from text /reference book & web/app reference:**

Unit #	Chapter Numbers
Unit No.	Chapter Topics
1	Chapter – 1,2
2	Chapter – 6,7,5
3	Chapter – 20,21,22
4	Chapter – 25,28,33
5	Chapter – 35 ,36