

**Enterprise Resource Planning and Management**

<b>Semester IV</b>	<b>Subject Code: BC41604</b>	<b>Lectures: 60</b>
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<b>Objectives:</b>
<p>The course is designed to equip students with,</p> <ul style="list-style-type: none"> <li>• The knowing of ERP</li> <li>• Learning of different ERP technologies</li> <li>• An Understanding of the business process of an enterprise</li> <li>• The ability to grasp the activities of ERP project management cycle</li> </ul>

<b>Unit 1: ERP : An Overview</b>	<b>03</b>
<ul style="list-style-type: none"> <li>• Introduction and definition ERP</li> <li>• Characteristics and features of ERP</li> <li>• Benefits of ERP.</li> <li>• Reasons for Growth of ERP</li> </ul>	

<b>Unit 2: Enterprise Modeling and Integration for ERP</b>	<b>12</b>
<ul style="list-style-type: none"> <li>• <b>Enterprise-An overview</b></li> <li>• Integrated Management Information</li> <li>• <b>The role of enterprise</b></li> <li>• Business modeling</li> <li>• Integrated Data Model</li> <li>• Role of Common/Shared Enterprise Database</li> <li>• <b>Linkages of the Enterprise</b> <ul style="list-style-type: none"> <li>➤ Establishing Customer-Enterprise Link</li> <li>➤ Establishing Vendor-Enterprise Link</li> <li>➤ Establishing Links within the Enterprise</li> <li>➤ Establishing Links with Environment</li> </ul> </li> <li>• Scope of Enterprise system</li> <li>• Generic Model of ERP System</li> <li>• Client/Server Architecture and Enterprise –wide Computing</li> <li>• Characteristics of client/Server Architecture</li> <li>• <b>Different Components of ERP Client/Server</b></li> </ul>	



Unit 3: ERP And related Technologies	12
<ul style="list-style-type: none"> <li>• <b>BPR(Business Process reengineering)</b> <ul style="list-style-type: none"> <li>➤ Definition</li> <li>➤ BPR –The different phases</li> </ul> </li> <li>• Enterprise Redesign Principles</li> <li>• BPR and IT</li> <li>• <b>Data Warehousing</b> <ul style="list-style-type: none"> <li>➤ Data Warehouse Components</li> <li>➤ Structure and Uses of Data Warehouse</li> </ul> </li> <li>• <b>Data Mining</b> <ul style="list-style-type: none"> <li>➤ Data Mining Process</li> <li>➤ Advantages and Technologies Used In Data Mining</li> </ul> </li> <li>• OLAP</li> <li>• <b>Supply Chain Management</b> <ul style="list-style-type: none"> <li>➤ Definition</li> <li>➤ Stevan's Model</li> <li>➤ Benefits</li> <li>➤ ERP Vs SCM</li> </ul> </li> <li>• <b>CRM</b></li> </ul>	

Unit 4: ERP Implementation	12
<ul style="list-style-type: none"> <li>• Evolution of ERP.</li> <li>• Evolution of Packaged Software Solutions.</li> <li>• <b>ERP package Selection</b> <ul style="list-style-type: none"> <li>➤ ERP Selection -A Two Step Process</li> <li>➤ Criteria for initial package screening</li> <li>➤ Initial package Short listing</li> <li>➤ Deviations in package selection</li> <li>➤ Finalizing the contract with ERP Package vendor</li> </ul> </li> <li>• The Obstacles in ERP implementation.</li> <li>• ERP Implementation Lifecycle (Different Phases).</li> <li>• Implementation Methodology.</li> <li>• ERP Implementation-The Hidden Costs.</li> <li>• In-house Implementation-Pros and Cons</li> <li>• Vendors and role of vendors for ERP</li> <li>• Consultants and role of consultants for ERP.</li> </ul>	



Unit 5:- Techniques in ERP System	9
<ul style="list-style-type: none"><li>• Introduction</li><li>• <b>Electronic Data Interchange(EDI)</b><ul style="list-style-type: none"><li>➤ Use of EDI</li><li>➤ Evolution of EDI</li><li>➤ Benefits of the EDI</li><li>➤ EDI Standards</li><li>➤ EDI Services</li><li>➤ EDI Components</li></ul></li><li>• IDoc Application</li><li>• <b>EDI Integration</b></li><li>• ALE Integration</li><li>• Internet Integration</li><li>• OCR Integration</li></ul>	

**Note:** Case study and assignment evaluation based on above units

**\*Contact hours – 12 hours**

Text Books:

- ✓ 1. *Enterprise Resource Planning and Management* , Sachin Kulkarni, Tech-max Publication Dec.2014
- ✓ 2. *Enterprise Resource Planning and Management* ,Jyotindra Zaveri, Nirali Prakashan June 2014

Reference Books:

- 1 Alexis Leon, *ERP :Demystified*, Tata Mc Graw Hill
- 2 Ravi Shankar and S. Jaiswal, *ERP*
- 3 Rajesh Ray , *ERP* ,Tata Mc Graw Hill

