# GUJARAT TECHNOGICAL UNIVERSITY
## DIPLOMA IN  INFORMATION TECHNOLOGY

## SEMESTER- VI

Subject Name:  ENTERPRISE RESOURCE PLANNING

| Sr. No. | Subject  Content | Hrs. |
|---|---|---|
| 1 | **1.0  Introduction to ERP**<br>    1.1  An overview<br>    1.2  Integrated Management Information<br>    1.3  Supply chain Management<br>    1.4  Resource Management<br>    1.5  Integrated Data Model<br>    1.6  Scope<br>    1.7  Technology<br>    1.8  Benefits of ERP<br>    1.9  Evolution<br>    1.10 ERP and the Modern Enterprise | 5 |
| 2 | **2.0  Business engineering & ERP**<br>    2.1 An overview<br>    2.2 Business Engineering<br>    2.3 Significance & principal of Business Engineering<br>    2.4 BRP, ERP and IT<br>    2.5 Business Engineering with Information Technology | 6 |
| 3 | **3.0  Business Modeling for ERP**<br>    3.1 An overview<br>    3.2 Building the Business Model<br>    3.3 ERP Modules (Finance, Plant Maintenance, Quality Management, Materials Management) | 7 |
| 4 | **4.0  ERP implementation Lifecycle**<br>    4.1 Pre-evaluation Screening<br>    4.2 Package Evaluation<br>    4.3 Project Planning Phase<br>    4.4 Gap Analysis<br>    4.5 Reengineering, Configuration, Implementation Team Training Testing<br>    4.6 End-user Training, Post-implementation (Maintenance mode) | 7 |

| 5 | **5.0 ERP Implementation & Advantages**<br>    5.1 An overview<br>    5.2 Different Role<br>    5.3 Customization<br>    5.4 Precautions<br>    5.5 ERP Implementation Methodology<br>    5.6 Guidelines for ERP implementation<br>    5.7 Advantages | 8 |
|---|---|---|
| 6 | **6.0 ERP Domains**<br>    6.1 An overview<br>    6.2 SAP<br>    6.3 SAP R/3 Application | 4 |
| 7 | **7.0 Case studies**<br>    7.1 E-Commerce to E-business<br>    7.2 E-Business structural transformation, Flexible Business<br>        Design, Customer Experience | 5 |
| | **Total** | 42 |

**Practical and Term work**
The Practical and Term work will be based on the topics covered in the syllabus.
Minimum **Four Case Studies** should be carried out during practical hours.

Reference Books:

1. Enterprise Resource Planning         Vinodkumar Garg &
                                          N.K.venkitakrishnan (PHI )
2. Enterprise Resource Planning     Alexix Leon , Tata McGraw Hill.
3. E-Business Roadmap For Success    Dr. Ravi Kalakota ,Marcia Robinson
4. Enterprise Resource Planning     Ravi Shankar & S.Jaiswal , Galgotia.
5. The SAP R/3 Handbook