1. **Syllabus**

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| --- | --- | --- | --- |
| **Sr.****No.** | **Module** | **Detailed Content** | **Hours** |
| 1. | Introduction to ERP | Enterprise An OverviewIntegrated Management Information, Business Modeling, Integrated Data Model | 04 |
| 2. | ERP and RelatedTechnologies | Business Processing Reengineering(BPR), DataWarehousing, Data Mining,On-line Analytical Processing(OLAP), Supply Chain Management (SCM),Customer Relationship Management(CRM), MIS - Management InformationSystem, DSS - Decision Support System, EIS - Executive Information System | 06 |
| 3. | ERPManufacturing Perspective | MRP - Material Requirement Planning, BOM - Bill OfMaterial, MRP -Manufacturing Resource Planning, DRP - Distributed Requirement Planning,PDM - Product Data Management | 06 |
| 4. | ERP Modules | Finance, Plant Maintenance, Quality Management,Materials Management | 06 |
| 5. | Benefits of ERP | Reduction of Lead-Time, On-time Shipment, Reduction in Cycle Time, Improved Resource Utilization, Better Customer Satisfaction, Improved Supplier Performance, Increased Flexibility, Reduced Quality, Costs, Improved Information Accuracy and Design-making Capability | 06 |
| 6. | ERPImplementation Lifecycle | Pre-evaluation Screening, Package Evaluation, ProjectPlanning Phase, Gap Analysis, Reengineering, Configuration, Implementation Team Training, Testing, Going Live, End-user Training, Post-implementation (Maintenance mode) | 06 |
| 7. | ERP case Studies | E-Commerce to E-businessE-Business structural transformation, Flexible Business Design, Customer Experience, Create the new techo enterprise, New generation e-business leaders, memo to CEO, Empower your customer, Integrate Sales andService, Integrated Enterprise applications | 06 |
| 8. | E-Business Architecture | Enterprise resource planning the E-business BackboneEnterprise architecture, planning, ERP usage in Realworld, ERP Implementation, Future of ERPapplications, memo to CEO ,E-Procurement, E- Governance, Developing the E-Business Design | 08 |
| 9. | Introduction to ERP tools | JD Edwards-Enterprise One Microsoft Dynamics-CRM Module |  |

Text Books:

Enterprise Resource Planning - Alexis Leon, Tata McGraw Hill.

Enterprise Resource Planning Diversified by Alexis Leon, TMH.

Enterprise Resource Planning - Ravi Shankar & S. Jaiswal , Galgotia.

Reference Books:

Guide to Planning ERP Application, Annetta Clewwto and Dane Franklin, McGRaw-Hill, 1997

The SAP R/3 Handbook, Jose Antonio, McGraw Hill

E-Business Network Resource planning using SAP R/3 Baan and Peoplesoft : A Practical Roadmap For Success By Dr. Ravi Kalakota

Theory Examination:

Question paper will comprise of 6 questions, each carrying 20 marks. Total 4 questions need to be solved.

Q.1 will be compulsory, based on entire syllabus where in sub questions of 2 to 3 marks will be asked.

Remaining question will be randomly selected from all the modules.

Weight age of marks should be proportional to number of hours assigned to each module.

1. **Course Outcome Statement**

**After completing the course successfully, students will be able to:**

|  |  |
| --- | --- |
| **Sr.No** | **Course Outcome Statement** |
| **ITC8041.1** | Understand and gain knowledge about the basic concepts of ERP and related technologies like DSS, MIS, CRM, SCM, Data warehouse, Data Mining, BPR etc. |
| **ITC8041.2** | Understand and gain knowledge about various ERP modules, lifecycle, risks and benefits of an ERP system. |
| **ITC8041.3** | Examine various case studies related to the ERP modules and analyze, use some basic ERP tools. |

1. **CO Assessment Tools**

|  |  |  |
| --- | --- | --- |
|  | **Direct Methods** | **Indirect Methods** |
| **CO NO** | **Test** | **Practical** | **Assignment** | **Mini Project**  | **End Semester** | **End Exam Viava** | **Total**  | **Course Exit Survey** |
| **ITC8041.1** | 20 | 20 | 20 | 10 | 20 | 10 | 100% | 100% |
| **ITC8041.2** | 20 | 20 | 20 | 10 | 20 | 10 | 100% | 100% |
| **ITC8041.3** | 20 | 20 | 20 | 10 | 20 | 10 | 100% | 100% |

1. **CO-PO and CO-PSO Mapping**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **CO No** | **PO1** | **PO2** | **PO3** | **PO4** | **PO5** | **PO6** | **PO7** | **PO8** | **PO9** | **PO10** | **PO11** | **PO12** | **PSO1** | **PSO2** |
| **ITC8041.1** | **3** | **1** | **--** | **--** | **--** | **2** | **1** | **--** | **2** | **2** | **2** | **--** | **1** | **3** |
| **ITC8041.2** | **3** | **1** | **--** | **--** | **2** | **2** | **1** |  **--** | **2** | **--** | **--** | **--** | **1** | **2** |
| **ITC8041.3** | **1** | **3** | **1** | **2** | **3** | **1** | **1** | **--** | **1** | **1** | **2** | **--** | **3** | **2** |

1. **Curriculum Gap/Content beyond syllabus (if any).**

**No such Gap found**

1. **Lesson Plan**

|  |  |  |  |
| --- | --- | --- | --- |
| **No of classes available:** | **52** | **No of Classes taken:** | **44** |
|  |  |  |  |
| **Sr. No.** | **Topic Planned** | **Planned Date**  | **Actual Date** | **Delivery Mechanisms** |
| 1 | Enterprise-An overview | 01/01/2019 | 01/01/2019 | Chalk & Board |
| 2 | Integrated Management Information | 02/01/2019 | 02/01/2019 | Chalk & Board |
| 3 | Business Modeling | 03/01/2019 | 03/01/2019 | Role Playing |
| 4 | Integrated Data Model | 03/01/2019 | 04/01/2019 | Chalk & Board |
| 5 | Business Processing Reengineering(BPR)  | 04/01/2019 | 04/01/2019 | Chalk & Board |
| 6 | Data Warehousing, Data Mining | 08/01/2019 | 04/01/2019 | Chalk & Board |
| 7 | On-line Analytical Processing(OLAP)  | 09/01/2019 | 08/01/2019 | Chalk & Board |
| 8 | Supply Chain Management (SCM) | 10/01/2019 | 09/01/2019 | PPT |
| 9 | Customer Relationship Management (CRM) | 10/01/2019 | 10/01/2019 | PPT |
| 10 | MIS-Management Information System | 11/01/2019 | 10/01/2019 | Chalk & Board |
| 11 | DSS-Decision Support System | 15/01/2019 | 10/01/2019 | Chalk & Board |
| 12 | EIS- Executive Information System | 16/01/2019 | 11/01/2019 | Chalk & Board |
| 13 | MRP-Material Requirement Planning  | 17/01/2019 | 15/01/2019 | Chalk & Board |
| 14 | BOM-Bill Of Material | 18/01/2019 | 16/01/2019 | Chalk & Board |
| 15 | Manufacturing Resource Planning, DRP –Distributed Requirement Planning | 22/01/2019 | 17/01/2019 | Chalk & Board |
| 16 | PDM-Product Data Management  | 23/01/2019 | 18/01/2019 | Chalk & Board |
| 17 | Finance Maintenance | 24/01/2019 | 22/01/2019 | Chalk & Board |
| 18 | Plant Maintenance | 25/01/2019 | 24/01/2019 | Chalk & Board |
| 19 | Quality Management | 29/01/2019 | 25/01/2019 | Chalk & Board |
| 20 | Materials Management | 30/01/2019 | 29/01/2019 | Chalk & Board |
| 21 | Reduction of Lead-Time, On-time Shipment | 01/02/2019 | 29/01/2019 | Chalk & Board |
| 22 | Reduction in Cycle Time  | 07/02/2019 | 30/01/2019 | Chalk & Board |
| 23 | Improved Resource Utilization | 08/02/2019 | 01/02/2019 | Chalk & Board |
| 24 | Better Customer Satisfaction, Improved Supplier Performance | 12/02/2019 | 12/02/2019 | Chalk & Board |
| 25 | Increased Flexibility, Reduced Quality | 20/02/2019 | 12/02/2019 | Chalk & Board |
| 26 | Costs, Improved Information Accuracy and Design-making Capability | 21/02/2019 | 20/02/2019 | Chalk & Board |
| 27 | Pre-evaluation Screening, Package Evaluation | 22/02/2019 | 26/02/2019 | Chalk & Board |
| 28 | Project Planning Phase | 23/02/2019 | 27/02/2019 | Chalk & Board |
| 29 | Gap Analysis, Reengineering | 26/02/2019 | 27/02/2019 | Chalk & Board |
| 30 | Configuration, Implementation Team Training | 27/02/2019 | 27/02/2019 | Chalk & Board |
| 31 | Testing, Going Live, End-User Training | 28/02/2019 | 07/03/2019 | Chalk & Board |
| 32 | Post-Implementation (Maintenance mode) | 01/03/2019 | 07/03/2019 | Chalk & Board |
| 33 | E-Commerce to E-business  | 05/03/2019 | 07/03/2019 | Chalk & Board |
| 34 | E-business structural transformation | 06/03/2019 | 08/03/2019 | Chalk & Board |
| 35 | Flexible Business Design, Customer Experience | 07/03/2019 | 12/03/2019 | Chalk & Board |
| 36 | Create the new techo enterprise | 08/03/2019 | 12/03/2019 | Chalk & Board |
| 37 | New generation e-business leaders, memo to CEO | 12/03/2019 | 13/03/2019 | Chalk & Board |
| 38 | Empower your customer  | 13/03/2019 | 19/03/2019 | Chalk & Board |
| 39 | Integrate Sales and service | 14/03/2019 | 20/03/2019 | Chalk & Board |
| 40 | Integrated Enterprise application. | 19/03/2019 | 22/03/2019 | Chalk & Board |
| 41 | Enterprise resource planning the E-business Backbone Enterprise architecture | 20/03/2019 | 26/03/2019 | Chalk & Board |
| 42 | Planning, ERP usage in Real world | 22/03/2019 | 26/03/2019 | Chalk & Board |
| 43 | ERP Implementation | 26/03/2019 | 27/03/2019 | Chalk & Board |
| 44 | Future of ERP applications | 27/03/2019 | 27/03/2019 | Chalk & Board |
| 45 | Memo to CEO, E-procurement | 28/03/2019 | 28/03/2019 | Chalk & Board |
| 46 | E-Governance | 29/03/2019 | 28/03/2019 | Chalk & Board |
| 47 | Developing the E-Business Design | 02/04/2019 | 28/03/2019 | Chalk & Board |
| 48 | JD-Edwards- Enterprise One | 03/04/2019 | 28/03/2019 | Chalk & Board |
| 49 | Microsoft Dynamics –CRM Module | 05/04/2019 | 29/03/2019 | Chalk & Board |
| 50 | Case studies in ERP | 11/04/2019 | 29/03/2019 | Chalk & Board |
| 51 | Doubts Clearing Session | 12/04/2019 | 29/03/2019 | Chalk & Board |
| 52 | Paper Solving  | 16/04/2019 | 29/03/2019 | Chalk & Board |

1. **Date wise lecture plan**

|  |  |  |  |
| --- | --- | --- | --- |
| **Date** | **Topic Taught** | **Date** | **Topic Taught** |
| 01/01/2019 | Enterprise-An overview | 12/02/2019 | Better Customer Satisfaction, Improved Supplier PerformanceIncreased Flexibility, Reduced Quality |
| 02/01/2019 | Integrated Management Information | 20/02/2019 | Costs, Improved Information Accuracy and Design-making Capability |
| 03/01/2019 | Business Modeling |
| 04/01/2019 | Integrated Data ModelBusiness Processing Reengineering(BPR) Data Warehousing, Data Mining | 26/02/2019 | Pre-evaluation Screening, Package Evaluation |
| 27/02/2019 | Project Planning PhaseGap Analysis, ReengineeringConfiguration, Implementation Team Training |
| 08/01/2019 | On-line Analytical Processing(OLAP)  | 07/03/2019 | Testing, Going Live, End-User TrainingPost-Implementation (Maintenance mode)E-Commerce to E-business  |
| 09/01/2019 | Supply Chain Management (SCM) |
| 10/01/2019 | Customer Relationship Management (CRM)MIS-Management Information SystemDSS-Decision Support System | 08/03/2019 | E-business structural transformation |
| 11/01/2019 | EIS- Executive Information System | 12/03/2019 | Flexible Business Design, Customer ExperienceCreate the new techo enterprise |
| 15/01/2019 | MRP-Material Requirement Planning  |
| 16/01/2019 | BOM-Bill Of Material | 13/03/2019 | New generation e-business leaders, memo to CEO |
| 17/01/2019 | Manufacturing Resource Planning, DRP –Distributed Requirement Planning | 19/03/2019 | Empower your customer  |
| 18/01/2019 | PDM-Product Data Management  | 20/03/2019 | Integrate Sales and service |
| 22/01/2019 | Finance Maintenance | 22/03/2019 | Integrated Enterprise application. |
| 24/01/2019 | Plant Maintenance | 26/03/2019 | Enterprise resource planning the E-business Backbone Enterprise architecturePlanning, ERP usage in Real world |
| 25/01/2019 | Quality Management |
| 29/01/2019 | Materials ManagementReduction of Lead-Time, On-time Shipment | 27/03/2019 | ERP ImplementationFuture of ERP applications |
| 30/01/2019 | Reduction in Cycle Time  | 28/03/2019 | Memo to CEO, E-procurementE-GovernanceDeveloping the E-Business DesignJD-Edwards- Enterprise One |
| 01/02/2019 | Improved Resource Utilization | 29/03/2019 | Microsoft Dynamics –CRM ModuleCase studies in ERPDoubts Clearing SessionPaper Solving  |