**INTERNATIONAL MANAGEMENT INSTITUTE, BHUBANESWAR**
**Post Graduate Diploma in Management**
**Enterprise Resource Planning (IS601)**
**3 Credit Course**
**Session Duration: 90 minutes**

**Term – IV**
**2016-17**
**Batch-II**

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| **Faculty:** | Ramesh Behl |
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| **Academic Year** | 2016-17 |
| Trimester | Four |
| Sessions | Twenty |
| Credits | Three |

## Course Description

The course provides an overview of enterprise systems and supply chain management concepts, and introduces students to how Enterprise Resource Planning (ERP) systems are used to manage business and take effective decisions. In addition the course helps in developing an understanding of the managerial issues involved in planning and implementing an ERP application, software selection, vendor identification, preparing the organization for ERP, along with identification of critical factors for successful implementation. The course integrates SAP ERP software throughout the course, which is one of the world's largest, and most powerful enterprise applications.

## Learning Outcomes

The outcomes of the course are to enable you to:

- Provide an **overview of enterprise systems** including their business use, evolution, features, advantages, modules and business applications. (LO1)
- Develop an understanding of how ERP systems **automate** business processes used to run organizations. (LO2)
- Provide **hands-on exposure** to work on a real ERP system and develop an appreciation for SAP software. (LO3)
- Learn how to **manage the supply chain** of an organization using an ERP system. (LO4)
- Get an understanding of the **architecture** of ERP systems. (LO5)
- Learn the importance of managing **change and reengineering** while implementing ERP systems. (LO6)
- Get an understanding of the **strategy** behind planning, designing and implementing an ERP and associated challenges. (LO7)

➢ Develop an understanding of the **complementary technologies** of ERP and its future. (LO8)
➢ Gain an understanding of the **integration** potential of ERP. (LO9)
➢ Prepare students for **career opportunities** in industry. (LO10)

**Pedagogy**

The course will be taught with the help of classroom discussions, case analysis and presentations, research assignments and online SAP exercises.

**Evaluation:**

➢ Quiz                                 25%
➢ Case                                 15%
➢ Assignment                   20%
➢ End Term                      40%

**Certification**

SAP-IMI co-branded certification would be awarded on successful completion of the course by SAP.

**Teaching Material:**
• ERP Exercise Book

**Reference Books:**

• Concepts in ERP, Ellen Monk and Bret Wagner, Cengage Learning, 4th Edition
• Integrated Business Processes with ERP System by Simha R. Magal, Jeffrey Word, Wiley
• Enterprise Systems for Management by Motiwalla and Thompson, Pearson Education
• Enterprise Resource Planning by Mary Sumner, Pearson Education
• Managerial Issue of ERP Systems by David L. Olson, Tata McGrawHill
• Maximizing your ERP System by Scott Hamilton, Tata McGrawHill
• Concepts in Enterprise Resource Planning by Brady, J.A., Course Technology

**Course Content and Session Plan:**

| Session | Topics | LO Attainment | Readings/Cases/Exercises |
|---|---|---|---|
| 1-2 | Introduction to ERP, Business Processes Reengineering and ERP Strategies<br>  o Definition And Description of ERP<br>  o Advantages And Disadvantages of ERP | **LO1 & LO2** | **Chapter 1 of Text Book**<br><br>***Additional Reading:***<br>- ERP Definition and Solutions<br>- ERP – Get it right, first time |

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| | o The Evaluation of ERP Systems.<br>o Defining ERP Strategies<br>o Principles & Elements of Business Engineering.<br>o Elements of Business Engineering. | | |
| 3-4 | Introduction to SAP System and preparing the organizations for ERP solutions:<br>o An Introduction to accessing and navigating the SAP ECC6 System.<br>o SAP ECC6 Screens<br>o Understanding Organizational Structure<br>o Master Data Entries<br>o Business Rules<br>o Effectively Readying your Organization for ERP<br>o Requirements for Successful Implementation of Business Engineering. | **LO3** | **Chapter 2 of Text Book**<br><br>*Additional Reading:* Putting the Enterprise into the Enterprise System<br><br>HBR Case: Cisco Systems Inc. Implementing ERP *(Group 1 to present and Class to Critique)* |
| 5-6 | Configuration of ERP | **LO3** | **Exercises** |
| 7-8 | Introduction to GBI and Sales and Distribution (SD) Process<br>o Sales Order Process<br>o Managing Customer Order and Sales Process | **LO5** | **Chapter 3 of Text Book**<br><br>**SD Case Study from ERP Exercise Book** |
| 9-10 | Materials Management (MM) Process<br>o ERP Business Modules for Materials Management (MM)<br>o Procurement Process and Running an MRP | **LO6** | **Chapter 4 of Text Book**<br><br>**MM Case Study from ERP Exercise Book**<br><br>HBR Case: Enterprise IT at Cisco 2004 *(Group 2 to present and Class to Critique)* |
| 11-12 | Production Planning and Execution (PP) and Supply Chain Management | **LO4** | **Chapter 4 of Text Book**<br><br>**PP Case Study from ERP Exercise Book**<br><br>HBR Case: Esterline Technologies: Lean Manufacturing *(Group 3 to present and Class to Critique)* |

| 13 | Warehouse Management | **LO7** | **Chapter 4 of Text Book**<br><br>**WM Case Study from ERP Exercise Book** |
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| 14 | ERP Business Modules for Financial Accounting & Control (FI-CO) | **LO7 & LO8** | **Chapter 5 of Text Book**<br><br>**FI-CO Case Study from ERP Exercise Book** |
| 15-16 | Human Capital Management in Enterprises | **LO8** | **Chapter 6 of Text Book**<br><br>***Additional Reading:***<br>- What is SAP HR Module?<br>- The emerging technologies transforming how HR works<br><br>**HCM I & II Case Study from ERP Exercise Book** |
| 17-18 | Integration of ERP Modules and Process Modeling | **LO9** | **Chapter 7 of Text Book**<br><br>**Integration Case Study from ERP Exercise Book**<br><br>HBR Case: IBM Case *(Group 4 to present and Class to Critique)* |
| 19-20 | ERP Implementation Issues & New Media Integration<br>o Defining the Implementation Strategies for Successful ERP<br>o Handling Post-Implementation Issues<br>o Integrating ERP with Emerging Technologies & Platforms | **LO9 & LO10** | **Chapter 8 of Text Book**<br><br>***Additional Reading:***<br>- ERPs: How to Make them Work<br>- The Next-Generation ERP<br>- Choosing Between Cloud and Hosted ERP, and Why It Matters<br>HBR Case: Cisco System Architecture ERP & Web-enabled IT *(Group 5 to present and Class to Critique)* |