CSH615: Enterprise Resource Planning	
Teaching Scheme Lectures: 3 hrs/Week Tutorials: 1 hr/Week Credits: 4	**Examination Scheme** Class Test -12Marks Teachers Assessment - 6Marks Attendance – 12 Marks End Semester Exam – 70 marks

Prerequisite: - Basic Knowledge of Project Management Skills

Course Objectives:

1. Understand the functionality of Supply chain and management techniques.
2. Understand business process models that assist with implementation of ERP.
3. Analyze the implementation of ERP and MPGPRO.
4. Design different types of ERP Interfaces.
5. Architect the system control, presentation, database Interfaces.

Detailed Syllabus

Unit-1 **Introduction:** ERP Introduction, Benefits, Origin, Evolution and Structure: Conceptual Model of ERP, The Evolution of ERP, System Architecture of ERP.
Unit-2 **Overview of an enterprise:** Why ERP is required and how can it help in development and deployment of information system in an enterprise? **Case1**: Manufacturing Industry.
Unit-3 **ERP Functional Modules:** Introduction, Client Server Multi tire Architecture of ERP,Standard Modules, Extended ERP, Integration of ERP with SCM and CRM Applications, Concept of e-ERP, Web Architecture of e-ERP.
Unit-4 **ERP Implementation:** Standard Methodology, As is Study, Requirement Engineering and Business Process Reengineering, Reverse Engineering, Batch data conversion from legacy system, Technology set up and testing, Issues/Risks, Impacts, Solution/ Mitigation. **Case2**: Why does ERP implementation fail in more than 50% cases?

Head
Department of Computer Applications
Faculty of Computer Applications
Invertis University, Bareilly (U.P.)

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Faculty of Computer Application
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Unit-5 **ERP software (any standard ERP package):** Structure, concepts of Data Acquisition, Data Organization, Data Conversion/Reporting, ERP Basis and Maintenance, Programming Interface. **Core Modules:** Financials, Materials, Manufacturing/Conversions, Sales and Distribution, Human Resources.
Unit-6 **ERP Software Services and Opportunities:** Step by step implementation, Document management Systems, Document Linking, Process change and document change & control, ERP Database, Online services/ Helpdesk, Control and security, Managing Communications and Training for ERP, Employment opportunities.
Text and Reference Books 1. Alexis Leon, "ERP Demystified", Tata McGraw Hill,2007,1st Edition 2. Rahul V. Altekar "Enterprise wide Resource Planning", Tata McGraw Hill, 2004,1st Edition 3. Vinod Kumar Garg and Venkitakrishnan N K, "Enterprise Resource Planning – Concepts and Practice", PHI, 2003, 2nd Edition, 4. Joseph A Brady, Ellen F Monk, Bret Wagner, "Concepts in Enterprise Resource Planning", Thompson Course Technology,2001,1st Edition

Course Outcomes:

After completing the course, students will be able to:

1. Demonstrate a good understanding of basic issues in Enterprise Systems.
2. Explain the scope of common Enterprise Systems (e.g., MM, SCM, CRM, HRM, procurement).
3. Explain the challenges associated with implementing enterprise systems and their impacts on organizations.
4. Describe the selection, acquisition and implementation of enterprise systems.
5. Use one of the popular ERP packages to support business operations and decision-making.
6. Communicate and assess an organization's readiness for enterprise system implementation with a professional approach in written form.
7. Demonstrate an ability to work independently and in a group.