

Semester	IV	Specialization	Supply Chain Management
Course Code	406SCM	Type	Subject - Elective
Course Title	Enterprise Resource Planning		

### Course Objectives:

1	To help the student understand how a business works and how information systems fit into business operations.
2	To emphasize the cross functional integration aspects of a business.
3	To enable better managerial decision making through real time data integration and sharing.

### Syllabus:

Unit Number	Contents	Number of Sessions
1	<b>Understanding Enterprise Resource Planning:</b> Concept of Enterprise , Overview of Business Functions and Business Processes, Integrated Management Information, Business Modeling, Evolution of ERP; ERP and related technologies; Myths about ERP; Importance of ERP; Value creation in organizations through ERP; Benefits of ERP; Risk of ERP - People Issues, Process Risks, Technological Risks, Implementation Issues, Operation & Maintenance Issues; Managing risk in ERP projects.	5 + 1
2	<b>ERP &amp; Related Technologies:</b> Business Process Reengineering, Data Warehousing, Data Mining, OLAP, PLM, SCM, CRM, GIS, ERP Functional Modules , Integration of ERP, Supply Chain, CRM.	5 + 1
3	<b>ERP Implementation:</b> Technological, Operational, Business Reasons for ERP implementation , ERP implementation Life Cycle – Objectives - Phases - Reasons for failure; Implementation challenges; ERP transition strategies - Big Bang Strategy, Phased Implementation, Parallel Implementation, Process Line Transition Strategy, Hybrid Transition Strategy, Strategy Choice; Success and failure factors of an ERP implementation; ERP implementation costs; Organization and working of ERP implementation team.	5 + 1
4	<b>ERP Operations and Future Trends:</b> Operation and maintenance of the ERP system; Maximizing the ERP system; ERP and e-business; Integration of ERP, internet and www; Future of ERP.	5 + 1
5	<b>ERP Systems Processes and Management Control:</b> Sales and Marketing; Accounting and Finance; Production and Material Management; Human Resource Management, Overview of an ERP product.	5 + 1

**Learning Resources:**

1	Text Books	Enterprise Resource Planning by Leon, Alexis, TMH Publication, 2 <sup>nd</sup> Edition, 2008.  Enterprise Resource Planning by Koul, Saroj, Galgotia Publishing, 2001.  ERP Concepts and Practice by Garg, V. K. and Venkat Krishna N. K., PHI Publication, 1997.
2	Reference Books	Enterprise Resource Planning by Sumner, Mary, Pearson Education, 2006.
3	Supplementary Reading Material	ERP In Practice by Vaman Jagan, TMGH
4	Websites	<a href="http://www.oracle.com/ERP">www.oracle.com/ERP</a>  <a href="http://www.sap.com/">www.sap.com/</a>  <a href="http://www.openerp.com/">www.openerp.com/</a>
5	Journals	Measuring System Performance of an ERP-based Supply Chain by Ho, Chrwan-Jyh., International Journal of Production Research, 2007, Vol. 45 Issue 6  Supply Chain Transformation byERPfor Enhancing Performance: An Empirical Investigation by Zong Dai., Advances in Competitiveness Research, 2008, Vol. 16 Issue 1  Coordination Strategies in an SaaS Supply Chain by Demirkan, Haluk; Cheng, Hsing Kenneth; Bandyopadhyay, Subhajyoti., Journal of Management Information Systems, Spring2010, Vol. 26 Issue 4