**IT168 E-Commerce and ERP**

**L-T-P: 3-0-0-3**

**Objectives**: The objective of the course is to get the students familiar with E-commerce, challenges faced by E-commerce, ERP as a part of E-commerce.

**Outcome**: Gets well-versed with the concepts of e-commerce, security involved in e-commerce and gains the ability to managing enterprise.

**UNIT I: Business Models of E–Commerce Lectures: 6**

E–Commerce Organization Model Based On Transaction Type, Model Based On Transaction Party: B2B, B2C, C2B, C2C, E– Governance; Limitations & Scope. E–strategy: Overview, Strategic Methods for developing E – commerce. Four C’s: (Convergence, Collaborative Computing, Content Management & Call Center)

**UNIT II: Electronic Commerce Providers Lectures: 4** Detailed Syllabus B. Tech. Program, NIT Patna Session 2015-16 Page 171

On-line Commerce options: Company profiles. Electronic Payment Systems: Digital payment systems; First virtual Internet payment system; Cyber cash model. On-line Commerce Environments: Servers and commercial environments; E-Commerce servers.

**UNIT III: E–Payment Mechanism Lectures: 10**

Payment through card system, E–Cheque, E–Cash, E –Payment, Threats & Protections. E–Marketing: Home–Shopping, E-Marketing, Tele-Marketing. Electronic Data Interchange (EDI): Concepts, Benefits and Applications; EDI Model, EDI Protocols (UN EDI FACT / GTDI, ANSI X–12), Operational process of Digicash, Ecash Trail; Using Ecash; Smart cardsData Encryption (DES / RSA). Risk of E –Commerce: Overview, Security for E–Commerce, Security Standards, Firewall, Cryptography, Key Management, Password Systems, Digital certificates, Digital signatures.

**UNIT IV: Enterprise Resource Planning (ERP) Lectures: 7**

Introductory Concepts: Scope of ERP, Benefits of ERP, Importance of ERP in the E-Business era. Supply Chain Management: Origin of the term, Role of ERP in SCM, ERP Features and capabilities. Overview of Commercial Software, re-engineering work processes for IT applications, Business Process Redesign, Knowledge engineering and data warehouse, Advantages & disadvantages of ERP.

**UNIT V: ERP–Business Modules Lectures: 11**

Functional and Process of Resource. Management, Introduction to basic Modules of ERP System: HRD, Personnel Management, Training and Development, Skill Inventory, Material Planning and Control, Inventory, Forecasting, Manufacturing, Production Planning, Production Scheduling, Production Control, Sales and Distribution, Finance, Resource Management in global scenario.

**UNIT VI: ERP - Case Study Lectures: 4**

ERP as an Integrated System, Data Base Approach,

Workflows in ERP, ERP and Corporate Portal, ERP Implementation: ERP Life Cycle Model, Information Systems Planning, Critical Success Factors of ERP Implementation, Extended ERP Applications: Customer Relationship Management, Supply Chain Management, Product Life Cycle Management.

**Text Books:**

 Adesh k. Pandey, “Electronic Commerce” (Fourth Edition) : Pete Loshin

 Dave Chaffey, “E-Business and E-Commerce Management”, 3rd Edition, 2009, Pearson Education Inc., New Delhi.

 ii) Ellen Monk, Bret Wagner, “Concepts in Enterprise Resource Planning”, 2nd Edition, CENGAGE Learning India Pvt.Ltd., New Delhi.

**Reference Books**

i) K.K. Bajaj, D. Nag “E-Commerce”, 2nd Edition, McGraw-Hill Education, New Delhi.

ii) Gary P. Schneider, “Electronic Commerce”, 7th Edition, Cengage Learning India Pvt. Ltd., New Delhi.

iii) P.T. Joseph, “E-Commerce An Indian Perspective”, PHI Publication, NewDelhi.

iv) Bhaskar Bharat, “Electronic Commerce-Technology and Application”, McGraw-Hill Education, New Delhi.

v) Mary Sumner, “Enterprise Resource Planning”, 2005, PHI Learning India Pvt. Ltd./Pearson Education, New Delhi.

vi) Chan, “E-Commerce fundamentals and Applications”, Wiley India, New Delhi.