

**SARDAR PATEL UNIVERSITY**  
**B.Sc. Information Technology**  
**IV Semester**  
**Syllabus with Effect from: June-2012**  
**Course:- US04EINT03**  
**(Recent Trends in IT)**

**Credits : 2**  
**Lectures Per week : 2 Hours**

**Unit 1 : Introduction to E-Banking and M-Commerce**

- Transactions : Inter Banking, Intra Banking.
- Electronic Payments, (Payment – Gateway Example)
- Securities in E-banking (SSL, Digital Signatures – Examples).
- Services Provided : ATM, Smart Card.

**M-Commerce**

- Introduction.
- Growth, Success stories of Mobile commerce.
- Technologies for Mobile commerce, WAP & its basics.
- Different generations of wireless communications, M-Commerce in India.

**Unit 2 : Introduction to virtual reality and artificial intelligence**

- Introduction.
- Brief History of Virtual reality.
- Present uses of virtual reality.
- Concepts of AI & Expert Systems.
- Building of Expert system.
- Merits and Demerits of Expert System.
- Application of Expert system and AI.

**Unit 3 : Biometric Technologies**

- RFID, Retina Scanning, Facial Reorganization.
- Finger Print scanning, hand geometry.
- DNA(Working principles).
- Application area
- Case Study.

**Unit 4 : GIS (Geographic Information System)**

- What is GIS? Nature of Geographic data.

- Spatial Objects & Data Models, Getting map on Computers.
- GIS standards & Standardization Process of GIS development.
- Implementation and Deployment phases.
- Components of a GIS -Hardware, software, data, People, Methods.
- Working of GIS.
- GIS and Related Technologies, Desktop Mapping, Remote sensing, GPS.

**MAIN REFERENCE BOOKS:**

1. Fundamentals Of Information Technology by Alex Leon & M. Leon, Vikas Publications, New Delhi.
2. E-Commerce 2004 A Managerial Perspective By Efrain Turban, Devid King
3. Biometric technologies and verification systems By John R. Vacca
4. Principles of Artificial Intelligence and Expert System Development. Author : David W. Rolston. Pub: McGraw Hill Book Company.