

SARDAR PATEL UNIVERSITY
Programme: MCA
Semester: V
Syllabus with effect from: June 2015

Paper Code: PS05EMCA01	Total Credit: 4
Title Of Paper: Trends in Information and Communication Technology	

Unit	Description in detail	Weighting (%)
1	Trends in Operating System Comparison of different operating systems including real-time systems Popular features New trends	
2	Trends in Software Technology New industrial requirements New development tools New technologies New software applications	
3	Trends in Hardware Technology Hardware selection Trends in hardware technology	
4	Trends in Communication and Networking New protocols New communication technologies	
5	Trends in Data Storage and Processing Data Warehousing Data Mining and application domains	
6	Trends in Security Mechanisms New Security Mechanisms New Security Algorithms	

Basic Text & Reference Books

- Alex Berson, Stephen Smith & Kurt Thearling, "Building Data Mining Applications for CRM", TMH, 2000.
- Andrew Tanenbaum, "Computer Networks", PHI, Fourth Edition, 2003.
- Douglas E. Comer, "Computer Network and Internets", Pearson Education Asia, Second Edition, 2000.
- Ian H. Witten & Eibe Frank, "Data Mining – Practical Machine Learning Tools and Techniques", Second Edition, ELSEVIER, 2005.
- ICT Magazines on Current Topics
- Tananbaum, "Distributed Operating Systems", PHI, 1995.
- Online material
- Solig Willium : Cryptography and Network Security, Prentice-Hall of India, 2000.
- Behrouz Forouzan, Introduction to Data Communication & Networking, Tata McGraw Hill, 1999

