

GUJARAT TECHNOLOGICAL UNIVERSITY

M.E Semester: III Computer Engineering

Subject Name **Advanced Internet Technology**

Sr.No	Course content
1.	Internet Architecture and World Wide Web, Internet Protocols, Web Servers, Web Application and Design Issues, Proxy Server, Plug-in modules, Web Server Configuration, Web document and Web page designing using Markup Languages (SGML, HTML, XML, VRML etc.), Dynamic Pages, Scripting, Common Gateway Interface, Sessions, Cookies, Web – Database server interface, Search Engine, Web crawlers, Web Services
2.	WEB CONTENT INTEGRATIONS AND APPLICATION Centralized systems, Client -server systems, Parallel and Distributed Systems, Databases access parallelism, Inter-query and Intra-query parallelism, Inter-operation & Intra-operation parallelism, Transactions and Internet application, Transaction Processing, Management of Log Audits, Distributed objects, Object request brokers, Component technology, Payment protocols and standards: Smart card, E -cash, E-wallet technologies, Electronic money and Electronic payment systems.
3.	SECURITY ISSUES Web server, client security issues, Web Application security, Authentication on the web, Web sessions, Various Issues: Signatures, Digital certificates, Privacy, Traceability, Encryption, Firewalls.
4.	INTEGRATION WITH ENTERPRISE APPLICATIONS Overview-enterprise systems architecture, issues: reliability, availability, replication, performance scalability, backup and disaster recovery Electronic publishing, Electronic commerce, Distance education, Collaborative working underlying principles and practices, Multimedia Content, Business -to-Business System - Business-to-Consumer System, Web access using Mobile and Wireless System

Reference Books:

1. Online Resources: www.w3.org, www.ietf.org, www.omg.org, www.xml.org, www.microsoft.com/com
2. Karl Barksdale, E. Shane Turner, "HTML, JavaScript, and Advanced Internet Technologies", I /E, Course Technology, 2005.
3. Steve Krar, "Advanced Manufacturing Technology", I/E, Industrial Press, 2003.
4. Steven M. Cohen, " Keeping Current: Advanced Internet Strategies to Meet Librarian and Patron Needs", American library association, 2003.
5. 5. Simson Garfinkel, Gene Spafford, Alan Schwartz , "Practical Unix & Internet Security", 3 /E, O'Reilly Media, 2003.