

Course Type	Course Code	Name of Course	L	T	P	Credit
OE	CSO403	Internet Technology	3	0	0	9

Course Objective
This Subject provides students with an in-depth knowledge about the Internet Technology. The students will be able to understand the various protocols like RIP, OSPF, BGP and Related Protocols.
Learning Outcomes
Knowledge and understanding: Outline the potential benefits of Internet Technology.

Unit No.	Topics to be Covered	Lecture Hours	Learning Outcome
1	Introduction to Internet - Internet Architecture, Evolution and Internet Network Architecture, OSI Reference Model, TCP/IP Model	3	Basic introduction
2	Internet Protocols, Introduction to IPv4 and IPv6, Need of Internet Protocols, Addressing Schemes	4	Understanding Internet Protocols
3	Internet Routing Protocols - RIP, OSPF, BGP Other Protocols - ICMP ARP, RARP, BOOTP, DHCP, DNS	9	Understanding Internet routing Protocols
4	Transport Layer Protocol - TCP, UDP	4	Understanding Transport Protocols
5	Mail Server & E-mail Protocol - SMTP, MIME, POP	4	Understanding Mail Protocols
6	Introduction to HTTP, HTTP Transaction, HTTP Request and Response Message.	4	Understanding HTTP Protocols
7	Introduction to WWW, Browser Architecture, HTML Page Creation (Static and Dynamic)	4	Understanding Internet
8	Voice & Multimedia over IP, Introduction to Real Time Traffic, VoIP	5	Understanding Voice and Multimedia Protocols
9	Mobile IP - Introduction and Need of MIP, Agent Discovery, Registration, Data Transfer, Inefficiency in MIP.	5	Understanding Mobile IP

Text Books and Reference Book

- IBM/RedBook - TCP/IP Tutorial and Technical Overview
- TCP/IP protocol Suite by Forouzan