

VEER NARMAD SOUTH GUJARAT UNIVERSITY, SURAT
D. C. A. (PART TIME) (3rd SEMESTER) SYLLABUS

Effective From : August – 2006 (L : 3; P : 0)
PAPER NO. : 202
Paper Title : **GRAPHICAL USER INTERFACE TOOL**
Prerequisite : Nil
Aim & Objective : To teach the concept of GUI application programming

1. Programming with Visual Basic
2. Visual Basic Components
 - 2.1. Microsoft Common Controls
 - 2.2. Working with control Arrays
 - 2.3. Creating ActiveX Controls
 - 2.4. Classes : Reusable components
3. Visual Basic Interfaces
 - 3.1. MDI Applications
4. Visual Basic & Databases
 - 4.1. The Data Control & Data Bound Controls
 - 4.2. Using DAO
 - 4.3. Using RDO
 - 4.4. Using ADO
 - 4.5. Creating Reports
5. Visual Basic & the Internet
 - 5.1. Using VBScript
 - 5.2. Active Server Pages
 - 5.3. ActiveX Documents

Reference Books:

1. Visual Basic 6 - Paul Sheriff - PHI
2. Using Visual Basic 6 - Brian Scler & Jeff Spotts - PHI
3. VB 6 Client/Server & Database Programming - Michael Mac Donald - Comdex
4. Beginning Visual Basic 6 - Peter Wrieght
5. Teach Yourself VB6 - Scott Wamn
6. Teach Yourself VB6 - Greg Perry

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Effective From : August – 2006 (L : 3; P : 0)
PAPER NO. : 205
Paper Title : **COMPUTER NETWORKS**
Prerequisite : Single User Operating System & Computer Organization
Aim & Objective : To teach network and its administration.

1. Networking Fundamentals

An Introduction to Networks, Network Topologies and Types

What is Networking?

Exchange, Sharing, preserving and protecting Information

Sharing Hardware and Software Resources

Need, Uses and Advantages of Network

Networks in the workplace (Tools, Tasks and Personnel)

Clients, Servers and Peers based and Hybrid Networks

Server types

Network Topologies (Bus, Star, Ring, Star Bus, Star Ring and Physical Mesh)

Network (Transmission) Media (Wires, Cables, Fibre Optics, Wave)

Defining Network Protocols (H/W Protocols, S/W Protocols, H/W – S/W Interface)

The OSI Model

Major Protocol Suites

Review of Protocols, Models and Implementations

NetWare IPX/SPX Protocols(Lower, Middle and Upper Layer Protocols)

Internet Protocols(Middle and Upper Layer Protocols)

Basics of Miscellaneous Protocols(SLIP, PPP, FDDI, X.25, Frame Relay, ISDN, B-ISDN, SONET, SDH, ATM, SMRS)

2. Network H/W And S/W

Cards and Cables, Repeaters, Hubs, Routers, and Bridges

Network Cards

Repeaters – its uses and selection criteria

Hubs (Chassis Hubs and Stackable Hubs)

Splitting Up Networks

Bridges (The Spanning Tree Protocol, Traffic Segmentation and Monitoring with examples)

Switches (Full Duplex Operation, Various Switching Modes, Avoiding Switch overload,

VLAN technology, Applicability)

Routers (Protocols, A Routed Network Example, Protocol Specificity, Bridging and Routing compared, Protocol Address Conventions)

Switch Routers

Network Operating Systems

Peer Network Operating Systems (Windows 95-98-NT workstation)

Client-Server Operating System(Common Features, Windows NT-2000, Novell Netware, Various Flavours of Unix)

Client Software (DOS Clients, Windows Clients, Macintosh Clients)

Novell Netware fundamentals

File system (volumes), Directories, files & flags(i.e. attributes) of the File.

Administrative command: Creating users & groups, assigning trustee directories & attributes,

Login script, Security

3. Network Management And Security

Understanding IEEE Standards

Understanding Wireless Networks

Reference Books:

1. Networking Complete- 1st Edition 2002, BPB Publication (Text Book)
2. Mastering Local Area Networks By Christa Anderson & Mark Minasi – BPB Publication
3. Mastering Novell Netware-Currid C.C, C.A Gillett-BPB
4. MCSE: Networking Essentials Study Guide- Tata McGraw Hill Publication
5. Introduction to Local Area Networks
6. Computer Networks By- Tenen Baum- PHI Publication

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Effective From : August – 2006 (L : 0; T : 0; P : 6)
PAPER NO. : 306
Paper Title : **PRACTICALS (BASED ON PAPER NO. 202)**

Practical shall be conducted as mentioned in the Teaching Scheme for Paper 202.
