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

Effective From : August – 2006
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 Wann
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)
   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:

2. Mastering Local Area Networks By Christa Anderson & Mark Minasi – BPB Publication
5. Introduction to Local Area Networks
6. Computer Networks By- Tenen Baum- PHI Publication

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