

VEER NARMAD SOUTH GUJARAT UNIVERSITY, SURAT
D. C. A. (PART TIME) (2nd SEMESTER) SYLLABUS

Effective From : August – 2006 (L : 3; P : 0)
PAPER NO. : 105
Paper Title : **OFFICE AUTOMATION & WEB DESIGNING TOOLS**
Prerequisite : Nil
Aim & Objective : To familiarize the students with office automation tools & web designing tools

1. WINWORD

- 1.1. Typing, Editing, Proofing & Reviewing
- 1.2. Formatting Text & Paragraphs
- 1.3. Automatic Formatting And Styles
- 1.4. Working With Tables
- 1.5. Graphics And Frames
- 1.6. Mail Merge
- 1.7. Automating Your Work & printing Documents

2. EXCEL

- 2.1. Working & Editing In Workbooks
- 2.2. Creating Formats & Links
- 2.3. Formatting A Worksheet & creating graphic objects
- 2.4. Creating Charts (Graphs), formatting and analyzing data
- 2.5. Organizing Data In A List (Data Management)
- 2.6. Sharing & Importing Data
- 2.7. Printing

3. PowerPoint

- 3.1. Getting started in PowerPoint
- 3.2. Creating a presentation
- 3.3. Creating & editing slides
- 3.4. Previewing a slide show
- 3.5. Adding picture & graph
- 3.6. Adding sound & video
- 3.7. Adding auto shape
- 3.8. Animating objects

4. Introduction to Internet

- 4.1. Internet Protocols http, ftp, TCP/IP etc
- 4.2. Internet Utilities e-mail, chat, searching etc.

5. Web Browsers

6. Web Server

7. HTML

7.1. HTML Tags

8. JavaScript

8.1. Fundamentals of JavaScript

8.2. Syntax of JavaScript

8.3. Use of JavaScript in HTML

8.4. Validation using JavaScript

9. CSS

9.1. What is CSS?

9.2. Advantage & Disadvantage of CSS

9.3. Creating CSS

9.4. Use of CSS in HTML

9.5. Formatting HTML page using CSS

Reference Books:

1. WORD 6 for Windows Quick & easy Reference - Mansfield – BPB
2. Mastering WORD 6 for Windows - Mansfield – BPB
3. Mastering EXCEL 4 for Windows - Townsend - BPB
4. Mastering EXCEL 4 for Windows - Chester - BPB
5. EXCEL 5 for Windows Quick & Easy - Jones - TECH
6. SAMS Teach Yourself JavaScript in 24 Hours – Michael G Moncus – Sams Publication
7. JavaScript for the World Wide Web – Tom Negrino, Dori Smith – Peachpit Press
8. Beginning JavaScript – Wilton, Apress, Shroff Publishers & Distributors Pvt. Ltd.
9. Speed up Your Site: Website Optimization – Andrew B King – New Riders
10. Absolute Beginner's Guide to Microsoft 2003 – Jim Boyce – QUE Publishing
11. Microsoft Office XP Comprehensive Course – Favro, Labyrinth, Shroff Publishers & Distributors Pvt. Ltd.

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Effective From : August – 2006 (L : 3; P : 0)
PAPER NO. : 201
Paper Title : **WEB BASED APPLICATION DEVELOPMENT**
Prerequisite : 'C' Language & HTML
Aim & Objective : To teach the concepts of Web Based Application Development

- 1. Introduction to Web Programming**
- 2. Installation of PHP/MySql and web server**
- 3. Introduction to PHP programming**
- 4. Writing PHP Programs**
- 5. Loops, Control Structure and Arrays**
- 6. PHP functions**
 - 6.1. String functions
 - 6.2. Array functions
 - 6.3. Mathematical function
 - 6.4. Graphics functions
 - 6.5. File system function
 - 6.6. Date and time function
 - 6.7. Miscellaneous Functions
- 7. Error handling**
- 8. Object Oriented Features of PHP**
- 9. File and Directory handling**
- 10. MySql database**
 - 10.1. Configuration of MySql server
 - 10.2. Starting MySql server
 - 10.3. MySql tables
 - 10.4. Displaying MySql data
 - 10.5. Adding and removing user access
- 11. Advance PHP programming**
 - 11.1. mail
 - 11.2. PHP - generated PDF files

12. Web Servers

- 12.1. IIS web Server
- 12.2. Apache web server

Reference Books:

1. Beginning PHP 4 Databases – Christopher Scollo, Harish Rawat, Dipak Thomas, Sanjay Abraham, Andrew Hill & Jim Hubbard; Wrox Press
2. PHP MySQL Website Programming – Chris Bea, Mike Duzzard, Jessy White, Cinis & Dilip Thomas; Wrox Press
3. PHP Black Book – Peter Moulding, Coriolis Group
4. MySQL – PHP Database Applications – Jay Greenspan & Brad Bulger; John Wiley & Sons
5. PHP MySQL Website Programming: Problem-Design-Solutions – Chris Bea, Mike Duzzard, Jessy White, Cinis & Dilip Thomas; Apress
6. Essential PHP for Web Professionals – Christopher Cosentino; Prentice Hall
7. Sam's Teach Yourself PHP 4 in 24 Hours – Matt Zandstra; SAMS
8. PHP 5.1 For Beginners – Ivan Bayross, O'Reilly, Shroff Publishers & Distributors Pvt. Ltd.

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Effective From : August – 2006 (L : 3; P : 0)
PAPER NO. : 203
Paper Title : **RELATIONAL DATA BASE MANAGEMENT SYSTEM**
Prerequisite : DBMS
Aim & Objective : To teach the concepts of RDBMS

1. Relational Database Design

- 1.1. Structure of Relational Database
- 1.2. Database Manager
- 1.3. Database Administrator
- 1.4. Pitfalls in Relational Database Design
- 1.5. Functional Dependencies
- 1.6. First, Second & Third Normal Form, BCNF

2. R.D.B.M.S. package & its tools

- 2.1. SQL Commands: SELECT, CREATE TABLE, INSERT, UPDATE, DELETE, ALTER TABLE, DROP TABLE, CREATE SEQUENCE, ALTER SEQUENCE, DROP SEQUENCE, CREATE INDEX, ALTER INDEX, DROP INDEX, ROLLBACK, COMMIT, SAVEPOINT, TRUNCATE, CREATE VIEW, DROP VIEW
- 2.2. Built-in Functions & Group Functions
- 2.3. PL/SQL: Data types in PL/SQL, user-defined RECORD data type, Control statements (IF, LOOP, WHILE, FOR), Cursor, Passing Parameter to Cursor, Implicit Cursor, Exception Handling, Stored & Local Procedures & Functions, Packages, Triggers

Reference Books:

1. An Introduction to Database Systems - C.J.Date - Narosa
2. Database System Concepts - Henry F. Korth & Abraham Silberschatz - McGraw-Hill
3. Principles of Database systems - J. Ullman - Galgotia Pub.
4. Introduction to Data Base System - Bipin C. Desai - Galgotia Pub.
5. Fundamentals of Database Systems – Elmasri Navathe, Addison Wesley
6. Introduction to Database Management - Navin Prakash – TMH
7. Oracle PL/SQL Programming – Feuerstein & Pribyl, O’Reilly, Shroff Publishers & Distributors Pvt. Ltd.
8. Manual of RDBMS

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Effective From : August – 2006 (L : 3; P : 0)
PAPER NO. : 204
Paper Title : **SOFTWARE ENGINEERING**
Prerequisite : Programming Methodology
Aim & Objective : To familiarize students with methods of Software Development & produce quality software product.

1. Introduction to software engineering.

- 1.1. Software, software characteristics, software engineering
- 1.2. Software development phases -Requirement analysis, design, coding, testing
- 1.3. Software maintenance
- 1.4. Effort distribution
- 1.5. Software development process models: Waterfall model, Prototyping, Evolutionary Model

2. Requirement Analysis

- 2.1. Study of requirements
- 2.2. Structured analysis
- 2.3. Data flow diagrams and Data dictionary

3. Requirement specifications

- 3.1. Characteristics and Components of SRS
- 3.2. Requirement specification document

4. System Design

- 4.1. Design methodology: Structured design, Object Oriented Design
- 4.2. Design documentation

5. Testing & Implementation

- 5.1. Testing fundamentals
- 5.2. Functional and Structural testing
- 5.3. Testing process
- 5.4. Implementation process

6. Software Reliability & Quality

7. CASE tools

- 7.1. Introduction
- 7.2. Characteristics

Case studies may be carried out at appropriate stages of the course.

Reference Books:

1. An integrated approach to software engineering - Pankaj Jalote - Narosa Publication
2. Software Engineering A practitioner's approach - Roger S Pressman - McGraw Hill Inter.
3. Fundamentals Of Software Engineering - Rajib Mall - PHI
4. Elements of system analysis - Marvin Gore - Galgotia Publ

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Effective From : August – 2006 (L : 0; T : 0; P : 6)
PAPER NO. : 206
Paper Title : **PRACTICALS (BASED ON PAPER NOS. 105, 201 & 203)**

Practical shall be conducted as mentioned in the Teaching Scheme for Papers 105, 201 & 203.

Separate journals for Paper No. 105, 201 & 203 should be prepared.
