

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, Voluntary 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.
