

Computer Application

देवी अहिल्या विश्वविद्यालय, इन्दौर

Session 2014-15

Class/ कक्षा : B.Com
Semester/सेमेस्टर : I/प्रथम
Subject/ विषय : Computer Application
Title of Subject Group : Introduction to Computer
fundamental and pc soft ware
Max. Marks अधिकतम अंक : 85+15 CCE

Particulars/विवरण

Unit I	Introduction of Computer and Operating System :- Define Computer, Evolution of the Computer, Importance of Computers, van new man Model of Computer, Block Diagram of Computer, Generation of Computer, Evolution of an Operating System, Define Operating System, Objective and Function of an Operating System, The Operating System as a Resource Manager, Types of an Operating System. Differentiate dos, windos and Linux/Unix, Internal and External Dos Commands, File Structure of Dos.
Unit II	Introduction to windows XP :- Windows XP Features, Windows Desktop Setting, Managing Windows Explorer Windows XP : Using Taskbar, Start menu Options, Accounts in Windows XP, win-xp, windows accessories :- Calculator, Note pad, word pad, Paint, Entertainment, Address Book.
Unit III	Control Panel :- Installation of Software, Addition of new Hardware, installation of Modem, Sound card, Printers and Scanner, Date and time, Taskbar and Start Menu, Windows Explorer: Creating a new folders and other Explorer Facilities, Changing the look and feel of windows (Desktop, Wallpaper, Screen Saver etc.)
Unit IV	MS-Word :- Define Word Processor, Types of word Processor, Creating Document in word, Formatting Features of MS word, word Standard Toolbar, Text Formatting, Header and Footer, Auto Text, Document Security Feature, Table Handling Features, Insertion of Files and Pictures, Mail Merge and Macros.
Unit V	Presentation using MS-PowerPoint :- Presentations, Creating, Manipulating Enhancing Slides, Organizational Charts, Excel Charts, Word art, Layering art Objects, Animations and Sounds, Inserting Animated Pictures or Accessing through Object, ,Inserting Recorded Sound Effect or In-Built sound Effect.

Books:-

1. Microsoft windows XP step by step-PHI
2. Operating system-villiam stallings-pearson education
3. Unix operating – sumitabha das-Tata McGrew hill
4. introduction to computers-Norton-McGrew hill
5. Microsoft office: Ron Mansdied-BPB publication.

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Session 2014-15

Class/ कक्षा	:	B.Com
Semester/सेमेस्टर	:	II/द्वितीय
Subject/ विषय	:	Computer Application
Title of Subject Group	:	Introduction to Information Technology with Internet E-Commerce
Max. Marks	अधिकतम अंक	: 85+15 CCE

Particulars/विवरण

Unit I	Information Technology :- Define Information Tecnology, Differentiate Computer Science and IT, Define Information System, and Define Data and Information. Algorithm for Problem Solving :- An Introduction Properties of an Algorithm, Classification, Algorithm Logic. Types of Programming Languages, Assembler, Compiler, Interpreter, Linker, Loader.
Unit II	Information System :- Basic Concept of Information System, Define Information System, Component of Information System, Organization structure and IT. Different Types of Software :- System Software, Application Software , Operating System Software, Utility Software. Flow Charts :- Symbols, Rules for making Flow chart, Programming Languages, Assemblers, compliers and Interpreter, Computer Application in Business.
Unit III	MS-Excel :- Worksheet basics, Creating Worksheet, Entering data into worksheet, heading information, data text, dates, alphanumeric, Values. Saving and Quitting worksheet, Opening and moving in an worksheet, toolbar and menus, working with formulas and cell referencing, Autosum, Absolute and relative addressing, working with graph, functions, pivot, table, data sort, data filter.
Unit IV	Basics of Internet :- Define Internet Browsers, Introduction to ISPS, Domain Naming System, WWW, URL, Working with FTP, Introduction to Firewalls, Popup Blockers, Various and Antivirus Programs. E-Mail Basics :- Working Principal of E-Mail System, Types of email, Mailbox and address, carbon copies, SMTP, POP3.
Unit V	E-Commerce :- Introduction to E-Commerce, Types of E-commerce, E-commerce Application, Electronic Payment System, Technologically Infrastructure of E-Commerce, Trends to E-Commerce, Strategy for successive E-Commerce, Computer Waste and Mistakes, Computer Crimes..

Reference Books:-

1. Fundamentals of information technology – Alexis Leon – Leon Techword and vikas Publishing house.
2. Introduction to Information Technology – Turban, Rainer, Potter- wiley India Edition.
3. Computer Networks and Internet – Comer- Pearson Education Asia.
4. Principal of Information System : Ralph Stair (Thomson course technology)
5. Microsoft Office – Ron Mansfied, BPB Publication.

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Session 2015-16

Class/ कक्षा	:	B.Com
Semester/सेमेस्टर	:	III/तृतीय
Subject/ विषय	:	Computer Application
Title of Subject Group	:	C-Programming Language
Max. Marks	अधिकतम अंक	: 85+15 CCE

Particulars/विवरण

Unit I	Concept of structured Programming : Algorithm, Flowchart, Advantages & Disadvantages of Algorithm & flowchart, Making of sequence, selection & iteration. Introduction to translator (compiler, assembler, interpreter) Linkerm loader.
Unit II	Introduction to C Language : History of C Language, features of C Language, character sets, keywords, identifier, constant, concept of header file (stdio.h, conio.h, math.h, string.h) standard functions (printf(), scanf()) Data types in C : fundamental & derived data types. Operators in C : arithmetic, relational, logical, conditional, increment, decrement, bitwise, compound assignment operator, conditional.
Unit III	Flow of control : selection statement, if If-- else, Nested If Iteration Statement : while loop, for-loop, do while loop
Unit IV	Functions : Introduction, types of functions, local, global variables, call by value, call by reference, function prototype, recursion technique & example. Pointer : concept of pointer, address operator, indirection operator, passing pointer as parameter, pointer arithmetic, pointer to array, pointer to function.
Unit V	Concept of array : Introduction, Need of Array, Types of array [1d, 2d array] , Memory representation of array. Structure & Union : concept of structure, syntax, reading writing structure variable, and array of structure, passing structure in function Union : concept of union, difference between structure & union, examples of union.

Books:-

1. Let Us C By yashwant kanitkar.
2. rit of C
3. C-Complete reference

(Free Ebooks)

<http://www.onlinecomputerbooks.com/free-internet-books.php>

 15/2/16

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Session 2015-16

Class/ कक्षा : B.Com
Semester/सेमेस्टर : IV/चतुर्थ
Subject/ विषय : Computer Application
Title of Subject Group : Introduction to
Database Management System


Max. Marks अधिकतम अंक : 85+15 CCE

Particulars/विवरण

Unit I	Introduction to different storage system. Comparative study of manual storage, file storage and dbms. Data, database, DBMS, advantages disadvantages of DBMS , Data development process. Data Models: object based, record based, relational, network hierarchical & physical data model, object oriented model.
Unit II	E-R model : entity, entity set, relationship, & their types, mapping constraints Extended E-R features : generalization, specialization, aggregation, E-R diagram
Unit III	Introduction to database language : SQL functions of SQL. Components of SQL (DDL, DML, DCL, TCL with syntax, example) Data types of SQL. Introduction to different operators, set operators, aggregate functions.
Unit IV	Advanced sql : review of SQL, concept of group by, having, order by clause, nested query, join & its types, Different functions of SQL, Numeric, data, data type conversion, character functions, miscellaneous functions
Unit V	Normalization : Introduction to Normalization, Need of Normalization, Normal form. Normalization using partial dependency, using full dependency, fully functional dependency, multivalued dependency, transitive dependency, join dependency

Books :-

1. Database Management System By Korth
2. Introduction to DBMS By Bipin Desai
3. Data Base System-Concept, Design and Application- By S.K.Singh, PEARSON Education

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Session 2016-17

Class/ कक्षा : B.Com
Semester/सेमेस्टर : V/पंचम
Subject/ विषय : Computer Application
Title of Subject Group : Internet Technology and Introduction to E-Commerce

Max. Marks अधिकतम अंक : 85+15 CCE

Particulars/विवरण

Unit I	Networking : Basic elements in Networking, Network topology, Different types of network- LAN, MAN, WAN, GAN, PAN. Networks connecting devices. Open System Interconnection model (OSI)- different OSI layers, TCP/IP model and layers. Interoduction to Internet and Extranet
Unit II	Data communication : Communication process for network Data communication its techniques, different types of data transfer mode. Multiplexing-Frequency Division Multiplexing, Time Division Multiplexing, Statistical Time Division Multiplexing. Switching techniques- Cricuit Switching, Message switching, packet Switching. ISDN and its benefits.
Unit III	Internet Concepts : History of the Internet, advantages and disadvantages of internet, www, IP Addressing, Domain Name System, introduction and working of e-mail. Introduction to Web browser and search engine: Definition features and types internet explorer, mozilla firefox and Netscape navigator, Search engine (types, features etc.) Electronic Meeting Systems (Audio conferencing, Video Conferencing, Groupware).
Unit IV	Overview of E-Commerce Technologies : Ecommerce : Definition, difference with traditional commerce, applications, advantages and disadvantages of e-commerce, Types of ecommerce, Infrastructure requirements for e-commerce, Different ecommerce website and their features.
Unit V	EDI- (electronic data interchange) : Evolution, uses, benefits, working of EDI, EDI layered architecture, cost benefit analysis of EDI, EDI component file, EDI service, EDI software. Overview of e-Banking and concept of EFT. Electronic payment system (EPS) : Overview of EPS , process of EPS, design issue of EPS, different types of EPS (including card based and non card based/with working, structure, proscons) risk and different frauds in EPS

Ps :- (Lectures should be on Basic concepts only i.e. Definition, Diagrams and working Principals)

Books :-

1. Doing Business on the Internet E-commerce (Electronic Commerce for Business) S. Jaiswal, Galgotia Publications.
2. E-Commerce An Indian Perspective, P.T. Joseph, S.J. PHI.
3. Electronic Commerce: Greenstein, Merylin, Tata Mc. Grew Hill

15/2/16

15/2/16

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Session 2016-17

Class/ कक्षा	:	B.Com
Semester/सेमेस्टर	:	VI/षष्ठम
Subject/ विषय	:	Computer Application
Title of Subject Group	:	Visual Basic
Max. Marks	अधिकतम अंक	: 85+15 CCE

Particulars/विवरण

Unit I	Introduction to Visual Basic Introduction Graphical User Interface (GUI) , Programming Language (procedural, Object Oriented, Even Driven), The Visual Basic Environment. IDE Introduction to VB Controls Textboxes, Frames, Check Boxes, Option Buttons, Setting a Border & Styles, The Shape Control, The line Control, Working with multiple controls and their properties, Designing the User Interface, Keyboard access, tab controls, Default & Cancel property, Coding for controls, list box and combo box and their properties, filling the list box using property window/add item method, picture/image box and their properties.
Unit II	Variables, Constants, and Calculations Variables, Variables Public, Private, Static, Constants, Data Types, Naming rules/conventions, Named & intrinsic, Declaring variables, Scope of variables, Val Function, Arithmetic Operations, Formatting Data. Error functions and types. Introduction to menu editor..
Unit III	Desion & Conditions and controls If Statement, If then-else Statement, Comparing Strings, Compound Conditions (And, Or, Not), Nested If Statements, Case Structure, Using If statements with Option Buttons & Check Boxes, Displaying Message in Message Box, Testing whwther Input is valid or not. Using Call Statement to call a procedure. Do loop, while and for next loop.
Unit IV	Working with forms and procedures: Introduction to forms and types of forms and setting form properties, Creating, adding, removing Forms in project, Hide, Show Method, Load, Unload, Statement, Me Keyword, Referring to Objects on a Different Forms.
Unit V	Introduction to database connecting tools (ADO, DAO, ADODC, ADODB), Creating the database files for use by Visual Basic (Using MS-Access), Using the data Control, setting its property, Using Data Control with forms, using list boxes & combo boxes as data bound controls, updating a database file (adding, deleting records)

Ps :- (Lectures should be on Basic concepts only i.e. Definition, Diagrams and working Principles)

Books:-

1. Programming with Visual Basic – Mohd. Azam-Vikas Publication.
2. Teach your self Visual Basic – Sams (Tech media).



15/2/16

15/2/16