PUNE DISTRICT EDUCATION ASSOCIATION'S

MAMASAHEB MOHOL COLLEGE

48/1A, Erandwane, Paud Road, Pune - 411038(Maharashtra) India

DEPARTMENT OF COMMERCE

Semester –I

Course Name: - Modern operating Environment and MS Office(FYBBACA)) (

Course Code - 101

Name of the Teacher : Prof. More S.S.

Course Outcome:-

CO1: Knowledge of Basic Computer with operating system and Networking .

CO2: Demonstrate the basic mechanics of creating word documents for office use.

CO3: Demonstrate the use of basic functions and formulas.

CO4: Demonstrate introductory formatting techniques and presentation styles.

CO5: Demonstrate introductory techniques of database.

Course FYBBA(CA)	Course Specific Outcome CSO	Methodology	Reference Books	No of Lectures
Introduction to computer : Computer Characteristics, Concept of Hardware, Software , Evolution of computer and Generations, Types of computer – Analog & Digital computers, Hybrid computers, General purpose & Special Purpose Computer, Limitations of Computer Applications of Computer in Various fields..	Knowledge about Hardware and Software. Details of types of Computer. Understanding Application and function of Computer.	Constructive	Computer Fundamentals by P.K. Sinha & Priti Sinha	6
Structure and Working of Computer : Functional Block diagram of computer. CPU, ALU, Memory Unit, Bus structure of Digital Computer - Address, data and control bus.	Describe Details on function of block diagram of Computer.	Constructive	Computer Fundamentals by P.K. Sinha & Priti Sinha	4
Input /Output Devices : Input device – Keyboard, Mouse, Scanner, MICR, OMR. Output devices – VDU, Printers – Dot Matrix, Daisy- wheel, Inkjet, Laser, Line printers and Plotters.	Knowledge on different Input devices. CSO2: Knowledge on different Output devices.	Constructive	Computer Fundamentals by P.K. Sinha & Priti Sinha	5
Computer Memory : Memory Concept , Memory cell, memory organization, Semiconductor	Details on Primary Storage devices and their types. CSO2: Details on	Constructive	Computer Fundamentals by P.K. Sinha	6

memory- RAM, ROM, PROM, EPROM, Secondary Storage devices - Magnetic tape, Magnetic Disk (floppy disk & Hard disk.), Compact Disk.	secondary storage devices.		& Priti Sinha	
Computer Language and Software :Algorithm, flowcharts, Machine language, Assembly language, High Level language, Assembler, Compiler, Interpreter. Characteristics of good Language. Software - System and application software.	Knowledge on Types of Languages. CSO2: Details on Types of Software. CSO3: Understand the concept of flowchart and Algorithms.	Active Learning	Computer Fundamentals by P.K. Sinha & Priti Sinha	5
Operating System :Operating system, Evolution of operating system. Function of operating system. Types of operating systems. Detailed study of Windows Operating System. Introduction and features of LINUX OS.	Concept of Operating system. CSO2: Knowledge on Linux operating system and windows operating system.	Constructive	Computer Fundamentals by P.K. Sinha & Priti Sinha	6
Networking : Concept, Basic elements of a Communication System, Data transmission media, Topologies, LAN, MAN, WAN, Internet	Concept of Communication with different types. CSO2: Details on Data Transmission.	Constructive	Computer Fundamentals by P.K. Sinha & Priti Sinha	3
MS-OFFICE : Introduction to Ms-office, Components and features. MS-Word – Creating letter, table , fonts , page layout document formatting spell check, print preview, template, colour, mail merge, auto text, inserting picture , word art. MS-EXCEL – Introduction to Excel , Sorting , Queries, Graphs , Scientific functions. Power Point :- Introduction to Power Point Creation of Slides , Inserting pictures , Preparing slide show with animation. MS-ACCESS - Creation and Manipulation of Files.	Enable to create and edit the documents in MS-Word. CSO2: Enable to create the presentation slides in MS-PowerPoint. CSO3: Enable to use the basic function and formulas in MS-Excel. CSO3: Enable to create and handle Database at primary level in MS-Access	Use of ICT	Microsoft Office 2000 by Vipra Computers using Microsoft office 2007 by Ed Bott ,Woody Leonhard using Microsoft office 2010 by , Pearson publication	12

COURSE: Principles of Programming and Algorithms (
Course Code - 103
Name of the Teacher: Prof. Bobade H. S.
Class: F.Y.B.B.A (C.A) 2013 Pattern

Course Outcomes: **Principles of programming and algorithms**

CO 1) To understand the fundamental syntax & computer programs.

CO 2) This course presents the salient feature in programming Lang.

CO 3) Apply the concept of algorithm efficiency

Course F.Y.B.B.A(CA)	**Course Specific Outcome: CSO**	**Methodology**	**Reference book**	**No. of Lectures**
Introduction: Concept: problem solving, algorithm Program development cycle , Characteristics of an algorithm , Time complexity: Big-Oh notation , Flowcharts Simple Examples: Algorithms and flowcharts	To understand symbols for drawing flowchart with their usage. To understand problem solving techniques by using waterfall model**.**	Constructivism	How to solve it by Computer – R. G. Dromy	**5**
Simple Arithmetic Problems: Addition / Multiplication of integers , Determining if a number is +ve / -ve / even / odd , Maximum of 2 numbers, 3 numbers , Sum of first n numbers, given n numbers , Integer division, Digit reversing, Table generation for n, Factorial, sine series, cosine series, n Pascal Triangle , Prime number, Factors of a number Other problems such as Perfect number, GCD of 2 numbers etc	We do actual implementation on flowchart and algorithm Implementation of loops in algorithm. Student will understand how to draw flowchart and writing algorithm.	Demonstrative	Fundamentals of Data Structures – Horowitz and Sahani Introduction to algorithms – Cormen, Leiserson, Rivest, Stein	**13**
Function and Recursion Concept: Multiplication Factorial , Ackerman function ,Fibonacci series , Permutation Generation	To understand the function in algorithmic language. To understand recursion is a programming technique to express the operation	**Lecture**	How to solve it by Computer – R. G. Dromy	**8**

Arrays Maximum and minimum of array, reversing elements of an array , Mean and Median of n numbers Row major and Column major form of array representation Matrices: Addition, Multiplication, Transpose, Symmetry, upper/lower triangular	To understand the concept of array in algorithmic language. how to use different types of array in algorithm. We see advantage of array over simple variable**.**	**Lecture**	Fundamentals of Data Structures – Horowitz and Sahani	**8**
Sorting and searching Insertion sort Bubble sort 5.3 Selection sort , Quick sort , Merge sort , Radix Sort , Bucket Sort Counting Sort , Sequential and Binary	To understand the different types of sorting and searching techniques.To understand the methods of searchingtechniques	**Lecture**		**13**

Reference Books:

1. How to solve it by Computer – R. G. Dromy

2. Fundamentals of Data Structures – Horowitz and Sahani

3. Introduction to algorithms – Cormen, Leiserson, Rivest, Stein

Prof. Harshada Bobade

Class: BBA[CA] –I(Procedure Oriented Programming using 'C') Pattern : 2013 (Semester - II)

Name of the Teacher: Sulekha Magar

Course Outcomes: Cos: Procedure Oriented Programming using 'C'

After course completion the students will have the following learning outcomes.

CO1: 1.Understanding a functional hierarchical code organization.

CO2 : 2. Ability to define and manage data structures based on problem subject domain.

CO3: 3. Understanding a defensive programming concept. Ability to handle possible errors during program execution.

Course : CS-201 BBA[CA]-I(Sem-2)	**Course Specific Outcome(CSO)**	**Methodology**	**Reference Books**	**No of Lectures**
Introduction to C language.	1.1. Students will understand the complete structure and fundamentals of c language.	Lecture	Let us C – Yashwant Kanetkar	4
Managing I/O operations.	2.1. Students will be able to use the functions for the input and output data	Lecture	Let us C – Yashwant Kanetkar.	2
Decision Making and looping.	3.1. Students can solve the problem and be able to execute using different looping structures.	Lecture	Let us C – Yashwant Kanetkar.	5
Functions and pointers.	4.1. After completing this chapter we can write the programs using functions.	Lecture	Pointers in C - Yashwant Kanetkar.	12
Arrays and Strings.	5.1. Able to store the data in the forms of groups i.e. arrays	Constructive	Programming in C Balguruswamy	8
Structures and union.	6.1.We get the complete knowledge of these methods of data storing 6.2.Able to implement these techniques in c programs	Constructive	Programming in C Balguruswamy,	5
C Preprocessor.	7.1. Able to Include header files, Macro expansion, Conditional compilation. These are files of declarations that can be substituted into your program and implement the same.	Constructive	Programming in C Balguruswamy,	2
File handling.	8.1. Get the compete knowledge about the files and different operations on files and implement the same.	Constructive		9

Types of Evaluation: Diagnostic evaluation Test to identify Slow Learner and Fast Learner.
Formative and Summative Evaluation

1) Formative Evaluation : Knowledge, Understanding, Application, Skills
2) Summative Evaluation: Term End Examination and University Examination.

Development of E-content/E-Module and made available on Google and Website.

References:

1. Let us C –Yashwant Kanetkar.
2. Programming in C – Balguruswamy.
3. Pointers in C - Yashwant Kanetkar.

Course: Database Management Systems

Name of the teacher: Prof.Harshada S. Bobade

Course Outcome: COs: **CA-202: : Database Management Systems**

CO1) To understand what is the relational model.
CO2)) To understand the basics of SQL and construct queries using SQL
CO3) To be familiar with the relational database theory, and be able to write relational algebra expressions for queries.

Course B.B.A (CA)(Sem-II)CA-202	**Course Specific Outcome CSO**	**Methodology**	**Reference book**	**No. of Lectures**
File Structure and Organization Introduction, Logical and Physical Files, Basic File Operations, File Organization, Indexing	To understand different types of file organization. To learn indexing and types of indexing.	Lecture	Books 1	**06**
Database Management System : Introduction, Basic Concept and Definitions, Definition of DBMS, Applications of DBMS, File processing system Vs DBMS, Advantages Disadvantages of DBMS, Users of DBMS, Views of Data, Models	To understand what a database is, about different types of databases, and why they are valuable assets for decision making. To learn some of the features of database systems.	**Lecture**	Books 1	**14**
Relational Model Introduction, Terms, Keys, Relational Algebra Operations	To learn how entities and their attributes are organized into tables. To know relational model's basic components:entities, attributes, and relationships among entities	**Contructive**	Book 2	**08**

SQL (Structured Query Language) Introduction , History Of SQL , Basic Structure , DDL Commands , DML Commands , Simple Queries ,Nested Queries, Aggregate Functions	To learn the basic commands and functions of SQL. Undestand how to use SQL for data administration (to create tables, indexes, and views). To Learn how to use SQL to query a database to extract useful information.	**Demonstrative**	Book 1,2	**12**
Relational Database Design: 1 Introduction ,Anomalies of un normalized database Normalization , Normal Form 1 NF , 2 NF 3 NF	To apply normalization forms on tables. To use functional dependencies using example.	**Lecture**	Book 1	**05**

REFERENCES:

1) Database System Concepts By Henry korth and A. Silberschatz

2) SQL, PL/SQL The Programming Language Oracle :- Ivan Bayross, BPB Publication.

3) Database Systems Concepts, Designs and Application by Shio Kumar Singh, Pearson

4) Introduction to SQL by Reck F. van der Lans by Pearson

5) Modern Database Management by Jeffery A Hoffer , V.Ramesh, Heikki Topi , Pearson

Prof.Harshada.S.Bobade

Course: Computer Applications in Statistics

Name of the Teacher: Prof. Seema Patil

Class: F.Y.B.B.A.(C.A.) Pattern:2013(Semester)

Course Outcomes: COs: Computer Application in Statistics
Course Code - 204

CO 1) To understand the power of excel spreadsheet in computing summary statistics.
CO 2) To understand the concept of various measures of central tendency and variation and their importance in business.
CO 3) To understand the concept of probability, probability distributions and simulations in business world and decision making.
CO 4) Know the various Simulation Techniques.
CO 5) To understand basic terms in the area of business calculus.

Course: Computer Application in Statistics	**Course Specific Outcomes CSO**	**Methodology**	**Reference Book**	**No.of Lectures**
Introduction to statistical functions of Excel: Concept of population and sample, Qualitative and Quantitative variables, Raw data, Basic Spreadsheet concept, data entry and its summary statistics using excel functions, preparation of grouped and ungrouped frequency distribution using excel, creating bar charts.	To understand the power of excel spreadsheet in computing summary statistics.	Demonstrative	Fundamentals of Applied Statistics Gupta S. C. and Kapoor V. K.	12
Methods of counting: Permutations and combination of n dissimilar objects taken r at a time, example and problems.	know the types of counting. Know the Permutations and combination.	Constructive	Fundamentals of Applied Statistics Gupta S. C. and Kapoor V. K.	6
Elements of Probability Theory: Random experiments, all possible outcomes (sample space),events , algebra of events. Classical definition of probability, addition theorem of probability (without proof), Independence of events, numerical problems.	To understand basic terms related to probability theory. To understand how to calculate probability. Know the term independency of events.	Constructive	Fundamentals of Applied Statistics Gupta S. C. and Kapoor V. K.	12
Standard Discrete Distributions: Probability distribution, cumulative probability distribution, mean, variance (without	To understand basic concept about discrete random variable. To know different discrete distribution.	Constructive	Fundamentals of Applied Statistics Gupta S. C. and Kapoor V. K.	8

proof) Bernoulli: Probability function, Mean and variance Binomial: Probability distribution, cumulative probability distribution, mean ,variance(without proof) problems.	To apply the applications of distributions in real life. To understand basic concepts about distributions			
Simulation Techniques: Random Number Generator Model sampling from discrete uniform and binomial distributions Monte Carlo Simulation examples and problems.	Apply simulation technique in the field of model sampling. Model sampling from discrete uniform and binomial distributions.	Constructive	Fundamentals of Applied Statistics Gupta S. C. and Kapoor V. K.	10

Course Name: - E-commerce (FYBBA (CA) Sem II)

Course Code - 205

Name of the Teacher – Prof. More S.S.

Course Outcome:-

CO1: Realize the problems involved in designing and building E-commerce systems.

CO2: Understand the need to design E-commerce systems that fully meet the requirements of the intended users.

CO3: Ensure that the implementation of a design is adequately tested to ensure that the completed E-commerce system meets the specifications.

CO4: Aware of the principles and practice to the design and development of E-commerce systems.

CO5: Be able to apply these principles in practice.

Course FYBBA(CA)	**Course Specific Outcome CSO**	**Methodology**	**Reference Book**	**No of Lectures**
Introduction to Electronic Commerce What is E-Commerce (Introduction and Definition) , Main activities E-Commerce, Goals of E-Commerce , Technical Components of E-commerce , Functions of E-commerce , Advantages and Disadvantages of E-commerce , Scope of E-commerce , Electronic commerce Applications, Electronic commerce and Electronic Business (C2C)(2G , G2G , B2G , B2P,B2A,P2P, B2A, C2A, B2B,B2C)..	Concept of E-Commerce and E-business. Concept of Ecommerce Framework. .	Constructive	E-Commerce Concepts , Models , Strategies by -- G.S.V Murthy	6
Building own website Reasons for building own website , Benefits of website , Bandwidth requirements , Cost , Time , Reach , Registering a Domain Name , Web promotion, Target email , Banner Exchange , Shopping Bots	Concept of web Promotion. Knowledge of Cost, time and target	Constructive	E-Commerce Concepts , Models , Strategies by -- G.S.V Murthy	7
Internet and Extranet Definition of Internet, Adv and Dis adv of the Internet , Component of a Intranet Information technology structure, Development of a Intranet , Extranet and Intranet Difference, Role of Intranet in B2B Application	Knowledge of Internet. usage of extranet.	Constructive	E-Commerce Concepts , Models , Strategies by -- G.S.V Murthy	5
Electronic payment System Introduction, Types of Electronic	Concept of Digital Payment.	ICT	E-Commerce Concepts ,	6

payment system, Payment types, Traditional payment, Value exchange system, Credit card system ,Electronic funds transfer, Paperless bill, Modern payment cash, Electronic cash	Knowledge on different types of E-payment.		Models , Strategies by -- G.S.V Murthy	
Technology Solution Protecting Internet Communications, Encryption, Symmetric Key Encryption , Public key Encryption , Public Key Encryption using digital signatures, Digital Envelopes ,Digital Certificates, Limitations to Encryption solutions.	Understanding the Concept Encryption Model. Understanding the concept of Digital Envelops and Certificate	Constructive	E-Commerce- Kenneth C.Laudon and Carol Guercio Traver E-Commerce by --Kamlesh K Bajaj and Debjani Nag	6
E-com Security E-commerce security environment, Security threats in E-com environment, Malicious code and unwanted programs, Phishing and identity theft, Hacking and cyber vandalism, Credit card fraud/Theft, Spoofing, Denial of service(DOS), Distributed denial of service(dDOS)	Concept of Security Threat. Understanding the concept of Phishing and identify Theft. Concept of Spooling and Denial of Services.	Constructive	E-Commerce- Kenneth C.Laudon and Carol Guercio Traver E-Commerce by --Kamlesh K Bajaj and Debjani Nag	6

References :

1. E-Commerce- Kenneth C.Laudon and Carol Guercio Traver

2. E-Commerce by --Kamlesh K Bajaj and Debjani Nag

3. Internet marketing and E-commerce-Ward Hanson and Kirthi Kalyanam

4. E-Commerce Concepts , Models , Strategies by -- G.S.V Murthy

5. Electronic Commerce by --Gary P. Schneider