

Annual Teaching Plan

Academic Year: 2021-2022

Semester: I

Department: BCA

Course Title: Programming in C part-I

Name of the teacher: Mr. Vijay Bapuso Pujari .

Month: September			Module/Unit: I	Sub-units planned
Lectures	Practical's	Total	Problem Solving Methods:	Problem definition, Steps in Problem Solving (Define Problem, Analyze Problem, Explore Solution). ALGORITHM: Definition, notations, characteristics of algorithm, examples on algorithm. FLOWCHARTS: Definition, features of flowcharts, symbols, examples, coding, running, debugging-types of errors (syntax, logical, runtime errors.)(syntax, logical, runtime errors.)
15	02	17		
Month: October			Module/Unit: I	Sub-units planned
Lectures	Practical's	Total	Introduction to c:	History, features of c language, Character set, Identifiers: variables, constants, symbolic constants, keywords. Data types, Operators: Arithmetic, relational, logical, assignment, bitwise, increment/decrement and special operators, Concept of operator Precedence & Associativity. Comments-types of comments, Use of Comments, Header Files (conio,stdio,string,math). Structure of C Program, Input and Output Functions.
15	07	22		
Month: November			Module/Unit: I	Sub-units planned
Lectures	Practical's	Total	Control Structures:	Conditional statements: if, If-else nested if-else, switch statement. Loops: while, for, do...While loop, Unconditional statements: Break, continue, exit, goto statements.
15	05	20		
Month: December			Module/Unit: I	Sub-units planned
Lectures	Practical's	Total	Arrays and Strings:	Arrays- Meaning and definition, Declaration, Initialization and types of arrays (single and multidimensional arrays). Strings: Meaning and definition, Declaration, Initialization String functions strlen(), strcmp(), strcpy(), strcat(), strchr(), strstr(), strtok(). Handling of character array.functionsstrlen(),strcmp(), strcpy(), strcat(), strchr(), strstr(), strtok(). Handling of characterarray.
15	07	22		



Annual Teaching Plan

Academic Year: 2021-2022

Semester: I

Department: BCA

Course Title: Fundamental of Computer

Name of the teacher: Mrs. Megha S. Patil

Month: September			Module/Unit: I	Sub-units planned
Lectures	Practical's	Total	Introduction to Computers:	Introduction to computer, Characteristics of Computers, Block diagram of computer, History of computers, Generations of computer, Applications of computer, Types of computers and features : Mini, micro, mainframe and super, Types of Programming Languages : Machine Languages, Assembly Languages and High Level Languages.(syntax, logical, runtime errors.)
15	02	17		
Month: October			Module/Unit: I	Sub-units planned
Lectures	Practical's	Total	Peripheral Devices and Number Systems:	Types of Memory (Primary And Secondary) : RAM, ROM, Secondary Storage Devices (FD, CD, HD, Pen drive) , I/O Devices, Number Systems : Binary, Octal and Hexadecimal, Conversion from one base to another,
15	07	22		
Month: November			Module/Unit: I	Sub-units planned
Lectures	Practical's	Total	Introduction to Software & Operating Environment:	Introduction to software, Types of software: System, Application and utilities. Introduction to operating system, Types of O.S. , Functions of O.S., Files and Directories , Batch Files Windows Operating Environment, Features of Windows, Control Panel, Taskbar, Desktop, Windows Application, Icons, Windows Accessories : Notepad and Paintbrush
15	05	20		
Month: December			Module/Unit: I	Sub-units planned
Lectures	Practical's	Total	Linux:	Introduction Linux, Features, Structure of Linux, File system, Linux Commands , Permission and Inodes, I/O redirection, Pipes ,VI Editor .
15	07	22		



Annual Teaching Plan

Academic Year: 2021-2022

Semester: I

Department: BCA

Course Title: Principles of Management

Name of the teacher: Ms. Vaishali D. Patil.

Month: September			Module/Unit: 1	Sub-units planned
Lectures	Practical's	Total	<u>Introduction to Management:</u>	Definition of Management, nature and importance of management, Functions of Management, Levels of management, Role of Manager in Organization, Contribution of F.W. Taylor, Henry Fayol and Max Weber, Peter Drucker to management theory. and High Level Languages.
15	00	15		
Month: October			Module/Unit: 1	Sub-units planned
Lectures	Practical's	Total	<u>Planning, Organizing and Staffing:</u>	Planning: Meaning, Definition & Nature, Steps in Planning Organizing: Meaning, Definition & Classification. (Formal & Informal organization, Virtual organization.), Staffing: Meaning Definition & Functions.
15	00	15		
Month: November			Module/Unit: 1	Sub-units planned
Lectures	Practical's	Total	<u>Directing :</u>	Leadership: Meaning & Definition, Theories of Leadership, Qualities of Leadership & Types of Leaders Motivation: Meaning, definition & importance of motivation, Theories of motivation –Maslow's Hierarchy Theory, Herzberg's theory & Theory X & Y. Communication- Types, Problems
15	00	15		
Month: December			Module/Unit: 1	Sub-units planned
Lectures	Practical's	Total	<u>Controlling and Trends in Management</u>	Management Information System: Meaning, Definition & Types of Information Management of Change: Meaning Definition & Forms or Types of Changes, Corporate Social Responsibilities. Controlling :- Meaning, Importance, Steps in Control Process, Types of control- Feed forward control, Concurrent control & feedback control,
15	00	15		



Annual Teaching Plan
Semester: I

Academic Year: 2021-2022

Department: BCA

Course Title: **Financial Accounting with Tally**

Name of the teacher: Ms.Vaishali D. Patil .

Month: September			Module/Unit: I	Sub-units planned
Lectures	Practical's	Total	Introduction to Financial Accounting :	Meaning and Definition of Financial Accounting, Objectives of Accounting, Various users of Accounting Information, Accounting Terminologies, Accounting Concepts and Conventions, Double entry system, Types of Accounts and Golden rules of accounting. Books of Prime Entry, Subsidiary Books and Ledger Creation.
15	00	15		
Month: October			Module/Unit: I	Sub-units planned
Lectures	Practical's	Total	Preparation of Financial Statements :	Trial Balance – Meaning, Definition, purpose and features, preparation of TrialBalance. Final Accounts – Introduction,Objectives of Final Accounts, Adjustments before PreparingFinal Accounts, Preparation of Trading Account, Profit and Loss Account, BalanceSheet.
15	00	15		
Month: November			Module/Unit: I	Sub-units planned
Lectures	Practical's	Total	Introduction to Tally	Tally History and Journey, Difference between manual accounting v/s computerized accounting, Tally features, Tally Fundamentals - Company Data – Gateway of Tally, Creating and Maintaining a Company, Loading a Company, F11: Company Features, F12: Configuration. VoucherEntry,Inventory-StockGroups,StockCategories,StockItems,Unitsof Measurement, Bills of Materials, Batches & ExpiryDates.
15	00	15		
Month: December			Module/Unit: I	Sub-units planned
Lectures	Practical's	Total	Report:	Profit and Loss A/C, Balance Sheet, Interest Calculations, Statutory Master-VAT, Inventory report, Day Book, Use of Reports in Business
15	000	15		



Annual Teaching Plan

Academic Year: 2021-2022

Semester: II

Department: BCA

Course Title: Basics of Web Technology

Name of the teacher: Mr. R. S. Sawant .

Month: March			Module/Unit: I	Sub-units planned
Lectures	Practical's	Total	Introduction:	Introduction to internet and its applications, E-mail, telnet, FTP, E-commerce, video conferencing, e-business. Internet service providers, domain name server, internet address. World Wide Web , uniform resource locator (URL), browsers – internet explorer, netscape navigator etc. search engine, web saver – apache, proxy server.
15	02	17		
Month: April			Module/Unit: I	Sub-units planned
Lectures	Practical's	Total	HTML-5 :	What is HTML-5 , Basic Tags, Structure, Layout, Web Development Process Overview of HTML Tags, Formatting Tags, Headings(H1-H6), Tags and Attributes, Paragraph Tag, FONT Tag, List Tags, Ordered and Unordered Tags, Hyperlink,
15	07	22		
Month: May			Module/Unit: I	Sub-units planned
Lectures	Practical's	Total	Basic of CSS :	Introduction to CSS, CSS Basics, Syntax / Rule of CSS , Selectors, properties and values, Applying CSS to HTML tags. Types : Internal, Inline, External CSS,CSS Colors, Background and color. CSS Box Model, CSS Margins, Padding, Borders CSS Text and Font Properties
15	05	20		
Month: June			Module/Unit: I	Sub-units planned
Lectures	Practical's	Total	CSS – Page Layout :	Classes IDs DIVs Spans, The Box, Styling Page Divisions, Paragraph Formatting, NavBars : Adding a Navigation Bar, Customizing a Navigation Bar. Case Study: Select any topic of your interest and Design Project using above technologies which suit for Desktop and Laptop computer screen only.Pipes ,VI Editor .
15	07	22		



Annual Teaching Plan

Academic Year: 2021-2022

Semester: II

Department: BCA

Course Title : Programming in C Part –II

Name of the teacher: Mr. Vijay BapusoPujari .

Month: March			Module/Unit: I	Sub-units planned
Lectures	Practical's	Total	User defined functions:	Need, multi functioned program, form of a c function, return value and their type, calling a function, category of a functions, Actual and Formal arguments, functions with array, Storage classes: auto, external, static and register. Command line argument. Preprocessors-Introduction, types of Preprocessor.
15	02	17		
Month: April			Module/Unit: I	Sub-units planned
Lectures	Practical's	Total	Pointers:	Understanding pointers, accessing address of variable, declaration and initializing pointers, pointer expression, pointer to array and functions, function call by value and by reference. Dynamic memory allocation-malloc(),calloc(),realloc().
15	07	22		
Month: May			Module/Unit: I	Sub-units planned
Lectures	Practical's	Total	Structures and Unions:	Defining and processing a structure, array of structure, array within structure, structure within structure, Defining and processing a Unions. Difference between structure and union.
15	05	20		
Month: June			Module/Unit: I	Sub-units planned
Lectures	Practical's	Total	File Handling:	Defining and opening a file, File opening mode- open, modify, write, Closing a file, Functions:fopen(), fclose(), fscanf(), Input/Output Operations on file: getc(), putc(), getw(), putw(), fprintf(), fscanf(), ftell(), fseek(), rewind().
15	07	22		



Annual Teaching Plan

Academic Year: 2021-2022 Semester: II

Department: BCA

Course Title: :Operating System

Name of the teacher: Mrs. Kshori A. Sawardekar .

Month: March			Module/Unit: I	Sub-units planned
Lectures	Practical's	Total	Introduction of Operating System:	Definition, Objectives, Functions, Generations of OS, Types of OS (Batch, Multiprogramming, Time Sharing, Real time, Distributed, Personal, Mobile). OS Structure (Monolithic, Layered, Microkernel, Exokernel, Client-Server).
15	00	15		
Month: April			Module/Unit: I	Sub-units planned
Lectures	Practical's	Total	Process Management :	Process Management- Introduction to Processes, Process Model, Process creation, Process termination, Process hierarchy, Process states.
15	00	15		
Month: May			Module/Unit: I	Sub-units planned
Lectures	Practical's	Total	Memory Management:	Memory Management- Introduction to memory management, Requirements (Relocation, Protection, Sharing, Logical organization, Physical organization). Memory partitioning- Fixed partitioning, Dynamic partitioning, Paging, Segmentation. Concept of Virtual memory.
15	00	15		
Month: June			Module/Unit: I	Sub-units planned
Lectures	Practical's	Total	File System:	Files & File system, File structure, File types, File access, File attributes, Basic file operations. Directories- Single-level & Hierarchical directory systems, Path names & Directory operations. Differentiate between Windows and Linux OS.
15	00	15		



Annual Teaching Plan
Semester: II

Academic Year: 2021-2022

Department: BCA

Course Title: :Database Management System

Name of the teacher: Mrs. Megha S. Patil .

Month: March			Module/Unit: 1	Sub-units planned
Lectures	Practical's	Total	Introduction of Database	1.1 Introduction 1.2 Definition of DBMS 1.3 file processing system Vs DBMS 1 1.4 Advantages and Disadvantages of DBMS 1.5 Users of DBMS 1.5.1 Database Designers 1.5.2 Application programmer 1.5.3 Sophisticated Users 1.5.4 End Users 1.6 Capabilities of good DBMS 1.7 Types of Database System: 1.7.1 Centralized database system 1.7.2 client-server system 1.7.3 Distributed database system.
15	03	18		
Month: April			Module/Unit: 1	Sub-units planned
Lectures	Practical's	Total	Organization of Database System :	2.1 Introduction 2.2. Logical and Physical Files 2.2.1 Logical and Physical Files Definitions 2.2.2 File Structure 2.3 Basic File Operations 2.3.1 Opening Files 2.3.2 Closing Files 2.3.3 Reading and Writing 2.3.4 Seeking 2.4 File Organization 2.4.1 Field and Record structure in file 2.4.2 Record Types 2.5 Types of file organization
15	07	22		
Month: May			Module/Unit: 1	Sub-units planned
Lectures	Practical's	Total	Data Models :	3.1 Introduction 3.2 Data Models 3.2.1 Object Based Logical Model 3.2.2 Record Base Logical Mode a. Relational Model b. Network Model c. Hierarchical Model 3.3 Entity Relationship Model 3.3.1 Entity Set 3.3.2 Attribute 3.3.3 Relationship Set 3.4 E-R Model terms Introduction 3.6. Relational Database Design 3.6.1 Introduction 3.6.2 Normalization 3.6.3 Normal Form 3.6.1. 1 NF, 3.6.2 2 NF, 3.6.3 3 NF
15	07	22		
Month: June			Module/Unit: 1	Sub-units planned
Lectures	Practical's	Total	Relational algebra :	4.1 Introduction 4.2 Operations- a. Select, b. Project, c. Union, d. Difference, e. Intersection, f. Cartesian Product, g. Natural Join 4.3. SQL (Structured Query Language) 4.3.1 Introduction 4.3.3 Basic Structure 4.3.4 DDL Commands 4.3.5 DML Commands 4.3.6 Simple Queries 4.3.7 Nested Queries
15	07	22		



Annual Teaching Plan

Academic Year: 2021-2022

Semester: II

Department: BCA

Course Title: :Human Resource Management

Name of the teacher: Mrs. Vaishali D.Patil .

Month: March			Module/Unit: I	Sub-units planned
Lectures	Practical's	Total	Introduction to HRM :	Introduction , Concept, Definition, HRD, Functions of HRM , Organization of HR, Role HRM , Qualities of HR Manager, Limitations & challenges of HRM.
15	00	15		
Month: April			Module/Unit: I	Sub-units planned
Lectures	Practical's	Total	Human resource Planning & Development :	Meaning and need of HRP , Process of HRP in I.T. Industry, Factors affecting HRP , Job Analysis , Job Description, Recruitment and Selection procedures in I.T. Industry. Training and Development methods followed in I.T. Industry.
15	00	15		
Month: May			Module/Unit: I	Sub-units planned
Lectures	Practical's	Total	Employee Separation :	Employee Separation practices in I.T. industry, Voluntary Retirement Schemes, Resignation-Discharge-Dismissal-Suspension-Layoff, Exit interview.
15	00	15		
Month: June			Module/Unit: I	Sub-units planned
Lectures	Practical's	Total	Compensation Management:	Components of remuneration, factors effecting wage and salary levels, variable compensation, incentive schemes.
15	00	15		



(Mr. S.S. Kale)

Co-ordinator
Department of B.C.A.
Vivekanand College, Kolhapur

Annual Teaching Plan

Academic Year: 2021-2022

Semester: III

Department: BCA

Course Title: Management Accounting

Name of the teacher: Mrs. Vaishali D. Patil

Month: September			Module/Unit: 1	Sub-units planned
Lectures	Practical's	Total	Introduction to Management Accounting:-	Meaning and Nature of Management Accounting, Role of Management Accountant in Planning, Controlling and Decision Making, Difference between Financial Accounting and Management Accounting, Tools and Techniques of Management Accounting.
15	00	15		
Month: October			Module/Unit: 1	Sub-units planned
Lectures	Practical's	Total	Financial Statement Analysis:-	Importance of Financial Statement Analysis, Techniques of Financial Statement Analysis- Ratio Analysis, Classification of Ratios- Profitability Ratio, Turnover Ratios, Liquidity Ratios, Solvency Ratios.
15	00	15		
Month: November			Module/Unit: 1	Sub-units planned
Lectures	Practical's	Total	Cost-Volume- Profit(CVP)	Analysis and Decision Making- Break Even Analysis, Cost-Volume- Profit Analysis, Decision Making- Make or Buy Decisions, Shut Down or Continue Decisions, Alternative Course of Action etc.
15	00	15		
Month: December			Module/Unit: 1	Sub-units planned
Lectures	Practical's	Total	Budgetary Control:-	Meaning of Budget and Budgetary Control, Objectives, Advantages, Limitations of Budgetary Control, Types of Budget- Production, Sales, Cash, Master Budget, Capital Expenditure, Budgeting.
15	00	15		



Annual Teaching Plan

Academic Year: 2021-2022

Semester: III

Department: BCA

Course Title: Human Resource Management

Name of the teacher: Mr. R. S. Sawant

Month: September			Module/Unit: I	Sub-units planned
Lectures	Practical's	Total	Introduction to HRM :	Introduction , Concept, Definition, HRD, Functions of HRM , Organization of HRD Role HRM ,Qualities of HR Manager, Limitations & challenges of HRM
15	00	15		
Month: October			Module/Unit: I	Sub-units planned
Lectures	Practical's	Total	Human resource Planning & Development :	Meaning and need of HRP , Process of HRP in I.T. Industry, Factors affecting HRP , Job Analysis , Job Description, Recruitment and Selection procedures in I.T. Industry. Training and Development methods followed in I.T. Industry
15	00	15		
Month: November			Module/Unit: I	Sub-units planned
Lectures	Practical's	Total	Virtual Organization :	Virtual Organization: meaning, type., Difference between Traditional and Virtual Organization. ,features of Virtual Organization, HRM in Virtual Organization,
15	00	15		
Month: December			Module/Unit: I	Sub-units planned
Lectures	Practical's	Total	Employee Separation	Employee Separation practices in I.T. industry, Voluntary Retirement Schemes , Resignation-Discharge-Dismisal-Suspension-Layoff, Exit interview,
15	00	15		



Annual Teaching Plan

Academic Year: 2021-2022

Semester: III

Department: BCA

Course Title: System Analysis and Design

Name of the teacher: Mrs. M. S. Patil

Month: September			Module/Unit: I	Sub-units planned
Lectures	Practical's	Total	Introduction to System Concepts:	1. Definition, Elements of System 1.2 Characteristics of System 1.3 Types of System 1.4 System Concepts
15	00	15		
Month: October			Module/Unit: I	Sub-units planned
Lectures	Practical's	Total	Requirement Analysis	2.1 Definition of System Analysis 2.2 Requirement Anticipation 2.3 Knowledge and Qualities of System Analyst 2.4 Role of a System Analyst 2.5 Feasibility Study And It's Types 2.6 Fact Gathering Techniques 2.7 SRS (System Requirement Specification)
15	00	15		
Month: November			Module/Unit: I	Sub-units planned
Lectures	Practical's	Total	Introduction to Software Engineering	3.1 Definition Need for software Engineering 3.2 Software Characteristics 3.3 Software Qualities (McCall's Quality Factors) Software Development Methodologies 3.4 SDLC (System Development Life Cycle) 3.5 Waterfall Model 3.6 Spiral Model 3.7 Prototyping Model 3.8 RAD Model
15	00	15		
Month: December			Module/Unit: I	Sub-units planned
Lectures	Practical's	Total	Analysis and Design Tools	4.1 Entity-Relationship Diagrams 4.2 Decision Tree and Decision Table 4.3 Data Flow Diagrams (DFD) 4.4 Data Dictionary 4.4.1 Elements of DD 4.6 CASE STUDIES (Based on Above Topic) Software Testing 4.7 Definition, Test characteristics 4.8 Types of testing 4.8.1 Black-Box Testing 4.8.2 White-Box Testing 4.8.3 Unit testing
15	00	15		



Annual Teaching Plan

Academic Year: 2021-2022

Semester: III

Department: BCA

Course Title: Object Oriented Programming with C++

Name of the teacher: V. B. Pujari

Month: September			Module/Unit: I	Sub-units planned
Lectures	Practical's	Total	Principles of Objective Oriented Programming	History of OOP, Introduction to Object Oriented Programming, Basic Concepts of Object Oriented Programming, Benefits of Object Oriented Programming, Object Oriented Languages, Difference between C and C++. Beginning with C++:- Tokens, Keywords, Identifiers and Constants, Data Types, Type Compatibility, Variables, Operators in C++, Operator Precedence, Control Structures (Conditional, Unconditional and Looping).
15	02	17		
Month: October			Module/Unit: I	Sub-units planned
Lectures	Practical's	Total	Functions in C++, Classes & Objects	Concept of Function, main() Function, Inline Functions, Function Overloading, Specifying a Class, Data members and Member Functions, Access Specifiers, Friend Function, Static data Member, Object declaration and Initialization, Arrays of Objects Constructors & Destructors, Inheritance Constructors-Definition, Use of Constructors, Types of Constructors (Default, Parameterized, Copy, Dynamic), Destructors-Definition, Use, Inheritance-Definition, Types of Inheritance (Single, Multiple, Multilevel, Hierarchical, Hybrid)
15	07	22		
Month: November			Module/Unit: I	Sub-units planned
Lectures	Practical's	Total	Pointers, Virtual Functions & Polymorphism	Pointer, Pointer to Object, this pointer, Pointer to Derived Classes, Polymorphism: Meaning, compile Time and Run time polymorphism, Rules for Operator Overloading, Operator Overloading (Unary & Binary)-with member function and friend function.
15	05	20		
Month: December			Module/Unit: I	Sub-units planned
Lectures	Practical's	Total	Working with Files	File-Definition, Use, Classes for File Stream Operations, Opening and Closing a File, File Opening Modes, File Pointers, Manipulation of File Pointer(using- seekg, seekp, tellg, tellp), Input Output Operations- get () Put (), read () Write ().
15	07	22		



Annual Teaching Plan

Academic Year: 2021-2022

Semester: III

Department: BCA

Course Title: Computer Oriented Statistical Methods

Name of the teacher: Mr. A. A. Powar

Month: September			Module/Unit: I	Sub-units planned
Lectures	Practical's	Total	Introduction to Statistics:	Meaning and Scope of Statistics, Primary and Secondary data. Frequency distribution, Qualitative and quantitative data, Discrete and Continuous variables. 1.3 Representation of frequency distribution by graphs: Histogram, Frequency polygon, Frequency curve, O give curve.
15	02	17		
Month: October			Module/Unit: I	Sub-units planned
Lectures	Practical's	Total	Measures of Central Tendency and Dispersion:	Measures of Central Tendency and Dispersion 2.1 Measures of central Tendency (Averages) 2.1.1 Meaning of averages, Requirements of good average 2.1.2 Definitions of Arithmetic mean (A.M.), Combined mean, Median, Quartiles, Mode, Relation between mean, median and mode. 2.1.3 Merits and Demerits of Mean, Median and Mode 2.1.4 Numerical examples based on 2.1.2 2.1.5 Determination of Median and Mode by Graph
15	07	22		
Month: November			Module/Unit: I	Sub-units planned
Lectures	Practical's	Total	Analysis of Bivariate data	3.1 Correlation 3.1.1 Concept of Correlation, Types of correlation (Positive, Negative, Linear and Non-linear), Methods of studying correlation: Scatter diagram, Karl Pearson's Correlation Coefficient (r) and Spearman's Rank Correlation Coefficient (R). 3.1.2 Interpretation of $r = +1$, $r = -1$, $r = 0$. 3.1.3 Numerical examples on 3.1.1 and 3.1.2
15	05	20		
Month: December			Module/Unit: I	Sub-units planned
Lectures	Practical's	Total	Sampling Techniques and Time Series Analysis :	4.1 Sampling Techniques: 4.1.1 Definitions of Sample, Population, Sampling, Sampling Method and Census method. Advantages of sampling method over census method. 4.1.2 Types of sampling: Simple Random Sampling (with and without replacement), Stratified Random Sampling, Merits and Demerits of S.R.S. and Stratified Sampling 4.1.3 Simple examples on Stratified 4.2.3 Numerical examples on 4.2.2.
15	07	22		



Annual Teaching Plan

Academic Year: 2021-2022

Semester: IV

Department: BCA

Course Title: Entrepreneurship Development

Name of the teacher: Mrs. V. D. Patil

Month: March			Module/Unit: I	Sub-units planned
Lectures	Practical's	Total	Entrepreneurship:-	Concept, Classification – Functions, Qualities of successful Entrepreneurship , Concept of Entrepreneur and entrepreneur. Entrepreneurship in modern Era.
15	00	15		
Month: April			Module/Unit: I	Sub-units planned
Lectures	Practical's	Total	Entrepreneurship Development:-	Concept, objectives, process, problems, measures in Entrepreneurship Development , Role of Entrepreneurship In Economic Development (Theories), Institutional support for Entrepreneurship Development - National Institute for Entrepreneurship and Small Business Development (NIESBD), Small Industry Development Bank of India (SIDBI), District Industry Censes (DIC)
15	00	15		
Month: May			Module/Unit: I	Sub-units planned
Lectures	Practical's	Total	Project Management:-	Project- classification of project, Stages of Project Management, Reasons for failure for, Project, Project for Retail stores, Hotel, Hospital, Dairy.
15	00	15		
Month: June			Module/Unit: I	Sub-units planned
Lectures	Practical's	Total	Successful IT Indian Entrepreneurs:-	Ratan Tata, AzimPremji, Narayan Murthy, Anand Mahindra, Kumar Mangalam Birla, Nandan Nilekani.
15	00	15		



Annual Teaching Plan

Academic Year: 2021-2022

Semester: IV

Department: BCA

Course Title: Web Technology

Name of the teacher: Mr. R. S. Sawant

Month: March			Module/Unit: I	Sub-units planned
Lectures 15	Practical's 02	Total 17	Internet and WWW :	1.1 Network, Client, Server, 1.2 What is Internet & Applications, WWW 1.3 URL, DNS, Browsers, Web Development: 2.1 :Introduction, features, steps in web development, . 2.2 Scripting Languages 2.3 HTML,structure 2.4 Basic Tags 2.5 Formatting tags , examples
Month: April			Module/Unit: I	Sub-units planned
Lectures 15	Practical's 07	Total 22	HTML tags :	3.1 Heading and paragraph tags, font tag. <table> tag 3.2 List Tags-ordered and unordered list tags: , <HR>.,<Marquee> 3.3 : Hyperlink, <A> Image and Image maps, <form> tag, form controls to design UI
Month: May			Module/Unit: I	Sub-units planned
Lectures 15	Practical's 05	Total 20	JAVA SCRIPT :	4.1 Introduction, Difference in Client-Side and Server-Side Script, features, introduction to Java script 4.2 keywords, data types, control statements (if-else, looping) with examples 4.3 objects in java. Events and Event Handlers, 4.4 Dialogue boxes, Built-in functions and Validations
Month: June			Module/Unit: I	Sub-units planned
Lectures 15	Practical's 07	Total 22	Introduction to Server-Side scripting :	5.1 ASP – Advantages and limitations, server set-up for ASP (PWS/IIS), built in ASP objects 5.2 loop Structure, control structure (If-Else-Then), methods to get data from 5.3 Clients – (GET and POST), difference between GET and POST 5.4,database handling, connections and record set object. 5.5Case Studies: On line Shopping Website,University Website



Annual Teaching Plan

Academic Year: 2021-2022

Semester: IV

Department: BCA

Course Title: Relational Database Management System

Name of the teacher: Mrs. M. S. Patil

Month: March			Module/Unit: I	Sub-units planned
Lectures	Practical's	Total	Introduction of Database	1.1 Introduction 1.2 Definition of DBMS 1.3 file processing system Vs DBMS 1.3.1 Limitation of file processing system 1.3.2 Comparison of File processing system and DBMS 1.4 Advantages and Disadvantages of DBMS 1.5 Users of DBMS 1.5.1 Database Designers 1.5.2 Application programmer 1.5.3 Sophisticated Users 1.5.4 End Users 1.6 Capabilities of good DBMS 1.7 Types of Database System: 1.7.1 Centralized database system 1.7.2 client-server system
15	02	17		
Month: April			Module/Unit: I	Sub-units planned
Lectures	Practical's	Total	Organization of Database System	2.1 Introduction 2.2. Logical and Physical Files 2.2.1 Logical and Physical Files Definitions 2.2.2 File Structure 2.3 Basic File Operations 2.3.1 Opening Files 2.3.2 Closing Files 2.3.3 Reading and Writing 2.3.4 Seeking 2.4 File Organization 2.4.1 Field and Record structure in file 2.4.2 Record Types 2.5 Types of file organization 2.5.1 Files of Unordered Records (Heap Files) 2.5.2 File of Ordered Records (Sorted Files) 2.5.3 Hash Files 2.5.4 Indexed file
15	07	22		
Month: May			Module/Unit: I	Sub-units planned
Lectures	Practical's	Total	Data Models	3.1 Introduction 3.2 Data Models 3.2.1 Object Based Logical Model 3.2.2 Record Base Logical Model a. Relational Model b. Network Model c. Hierarchical Model 3.3 Entity Relationship Model 3.3.1 Entity Set 3.3.2 Attribute 3.3.3 Relationship Set 3.4 E-R Model terms Introduction
15	05	20		
Month: June			Module/Unit: I	Sub-units planned
Lectures	Practical's	Total	Relational algebra	4.1 Introduction 4.2 Operations a. Select b. Project c. Union d. Difference e. Intersection f. Cartesian Product g. Natural Join 4.3. SQL (Structured Query Language) 4.3.1 Introduction 4.3.2 History of SQL
15	07	22		



Annual Teaching Plan

Academic Year: 2021-2022

Semester: IV

Department: BCA

Course Title: **Organizational Behavior**

Name of the teacher: Ms. V. D. Patil

Month: March			Module/Unit: I	Sub-units planned
Lectures	Practical's	Total	Introduction to Organizational Behavior:	Definition, Importance, Scope, Fundamental Concepts of OB, Disciplines continuing to O.B. Evolution of O.B
15	00	15		
Month: April			Module/Unit: I	Sub-units planned
Lectures	Practical's	Total	Attitude, Values and Motivation:	Meaning of attitude, perception, Effects of employee attitudes, components of Attitude, Organizational Values, Importance of Motivation, Motivation process, Motivation model. Maslow's Need Hierarchy Theory
15	00	15		
Month: May			Module/Unit: I	Sub-units planned
Lectures	Practical's	Total	Organizational culture, Quality Work Life and Stress Management :	A) Organization Culture & Stress Management: B) Stress Management C) Quality Work Life
15	00	15		
Month: June			Module/Unit: I	Sub-units planned
Lectures	Practical's	Total	Group Behavior ,Conflict and Stress:	Nature of Group. Types of Groups, Team Building and Effective team works, Stages of group Formation, Concept of conflict-Conflicts & Stress – Concept, why and how & Management5.5Case Studies: On line Shopping Website, University Website
15	00	15		



Annual Teaching Plan

Academic Year: 2021-2022

Semester: IV

Department: BCA

Course Title: Mathematics Foundation

Name of the teacher: Miss. Snehal Patil

Month March			Module/Unit 1	Sub-units planned
Lectur es	Practical's	Total	SETS:	1.1 Meaning of a set. 1.2 Methods of describing of a set. 1.2.1 Tabular form 1.2.2 Set builder form 1.3 Types of a set 1.3.1 Finite set, Infinite set, Empty set, Subset, Universal set. 1.3.2 Equal sets, Disjoint sets, Complementary set. 1.4 Operation on Sets 1.4.1 Union of sets 1.4.2 Intersection of sets 1.4.3 Difference of sets. 1.5 De Morgan's Laws (without proof).
15	02	17		
Month April			Module/Unit: 1	Sub-units planned
Lecture s	Practical's	Total	Logic :	2.1 Introduction 2.2 Meaning of Statement (Proposition). 2.3 Simple and compound statements. 2.4 Truth values of a statement. 2.5 Law of excluded middle. 2.6 Logical Operations: Negation, Conjunction, Disjunction, Implication, Double Implication. 2.7 Equivalence of Logical statements. 2.8 Truth Tables and construction of truth tables. 2.9 Converse, Inverse and Contra positive. 2.10 Statement forms: Tautology, Contradiction, Contingency. 2.11 Duality, Laws of logic: Idempotent laws, Commutative laws, Associative laws, Identity laws, Involution laws, Distributive laws, Complement laws, De Morgan's laws. 2.12 Argument: Valid and Invalid arguments. 2.13 Examples based on above.
15	07	22		
Month May			Module/Unit: 1	Sub-units planned
Lectures	Practical's	Total	Matrices :	3.1 Meaning of a matrix, Order of matrix. 3.2 Types of matrices 3.2.1 Row matrix, Column matrix, Null matrix, Unit matrix 3.2.2 Square Matrix, Diagonal matrix, Scalar matrix, 3.2.3 Symmetric matrix, Skew - symmetric matrix 3.2.4 Transpose of a matrix, 3.3 Definition of Determinants of order 2nd & 3rd and their expansions 3.4 Singular and Non-Singular Matrices 3.5 Algebra of Matrices 3.5.1 Equality of matrices 3.5.2 Scalar Multiplication of matrix 3.5.3 Addition of
15	05	20		
Month June			Module/Unit: 1	Sub-units planned
Lectures	Practica l's	Total	Graph Theory	4.1 Introduction to Graph 4.2 Kinds of Graph : Simple, Multi and Pseudo Graph 4.3 Digraph 4.4 Weighted Graph 4.5 Degree of Vertex, Isolated Vertex 4.6 Path, Cycle, A-Cycle, 4.7 Types of Graph: Complete, Regular, Bi-Partite, Complete Bi-partite, Isomorphism of Graph 4.8 Matrix Representation of Graph:
15	07	22		




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Annual Teaching Plan

Academic Year: 2021-2022

Semester: V

Department: BCA

Course Title: Cost Accounting

Name of the teacher: Ms. Vaishali D.Patil

Month: September			Module/Unit: 1	Sub-units planned
Lectures	Practical's	Total	Introduction to cost Accounting:	Introduction to cost Accounting: Concept of cost, costing, Cost Accounting and Cost Accountancy, Objectives, Advantages and Limitations of Cost Accounting, Difference between cost Accounting & Financial Accounting, Cost Unit and cost centre. Elements of Cost, Preparation of cost sheet.
15	00	15		
Month: October			Module/Unit: 2	Sub-units planned
Lectures	Practical's	Total	Cost Accounting of Material, Labour and Overheads :	Cost Accounting of Material, Labour and Overheads : Methods of pricing of material issues FIFO, LIFO, Simple Average, weighted Average. Methods of Wages- Time basis, Piece Basis, Labour Turn over(Theory) Classification, Allocation, Absorption and Apportionment of Overheads (Theory)
15	00	15		
Month: November			Module/Unit: 3	Sub-units planned
Lectures	Practical's	Total	Methods of Costing - Process:	Methods of Costing - Process: Costing excluding calculation of Equivalent production, contract costing, service costing (Transport Costing).
15	00	15		
Month: December			Module/Unit: 4	Sub-units planned
Lectures	Practical's	Total	Reconciliation of Cost and Financial Accounts:	Reconciliation of Cost and Financial Accounts: Reconciliation of Cost and Financial Accounts.
15	00	15		



Annual Teaching Plan

Academic Year: 2021-2022

Semester: V

Department: BCA

Course Title: E Commerce

Name of the teacher: Mr. V. B. Pujari

Month: September			Module/Unit: 1	Sub-units planned
Lectures	Practical's	Total	Introduction to E-Commerce:	Introduction to E-Commerce: Defining Commerce; Main Activities of Electronic Commerce; Benefits of E-Commerce; Broad Goals of Electronic Commerce; Main Components of E-Commerce; Functions of Electronic Commerce – Communication, Process Management, Service Management, Transaction Capabilities; Limitations, Challenges and opportunities, Process of E-Commerce; Types of E-Commerce; Role of Internet and Web in E-Commerce; Technologies Used; E-Commerce Systems; Pre-requisites of E-Commerce; Scope of E-Commerce; E-Business Models. EDI- Concept, Components, working mechanism of EDI, Advantages and disadvantages of EDI. Difference between E-Business and E-Commerce, Introduction to M-Commerce.
15	00	15		
Month: October			Module/Unit: 2	Sub-units planned
Lectures	Practical's	Total	Electronic payment System	Electronic payment System Concept of e-payment, Difference between traditional and electronics payment system, UPI, NCPI, Digital cash, Credit and Debit card system, Smart Card, E Wallet, Prepaid, post paid and instant payment system, Electronic funds transfer, Concept of e-banking.
15	00	15		
Month: November			Module/Unit: 3	Sub-units planned
Lectures	Practical's	Total	E-Security	E-Security Concept of E-security, Security threats- concept and types, Malicious code, Phishing and identity theft, Hacking and cyber vandalism, Credit card fraud/Theft, Spoofing, Denial of service (DoS), Firewall and proxy server.
15	00	15		
Month: December			Module/Unit: 4	Sub-units planned
Lectures	Practical's	Total	Security Solutions	Security Solutions Concept of encryption and decryption, Symmetric and asymmetric key encryption, Cipher text, Digital Envelopes, Digital certificates, Security socket layer (SSL), Limitations of encryption solutions.
15	00	15		



Month: September			Module/Unit: 1	Sub-units planned
Lectures	Practical's	Total	1Basics of Data communication	
15	00	15		1Basics of Data communication 1.1. Data Communication concept 1.1.1 Components-sender, receiver, message,transmission media 1.1.2 Data Flow- simplex, half duplex, or full-duplex 1.2 Networks 1.2.1 Definition, Advantages and disadvantages 1.2.2 Categories of Networks- LAN, WAN, MAN 1.2.3 Network Architecture-Client-Server
Month: October			Module/Unit: 2	Sub-units planned
Lectures	Practical's	Total	Transmission media and Reference Models	
15	00	15		Transmission media and Reference Models 2.1 Transmission Media 2.1.1 Guided Media - Twisted-Pair Cable, Coaxial Cable, Fiber-Optic Cable 2.1.2 Unguided Media: Radio Waves, Microwaves, Infrared, satellite communication 2.2 Transmission Modes- Parallel and Serial - (Asynchronous, Synchronous) 2.3 Reference Models 2.3.1 OSI reference model 2.3.2 TCP/IP reference model
Month: November			Module/Unit: 3	Sub-units planned
Lectures	Practical's	Total	Data link, Network and Transport layer	
15	00	15		Data link, Network and Transport layer 12 3.1 Data link Layer- 3.1.1Design issues 3.1.2 Framing, error detection and correction 3.2 Network layer 3.2. 1 design issues of network layer 3.2.2 Routing algorithm (shortest path, Flooding, distance vector,) , connect, send, receive, disconnect 3.3.2 Protocols: TCP, UDP
Month: December			Module/Unit: 4	Sub-units planned
Lectures	Practical's	Total	Session, Presentation and Application layer	
15	00	15		4.1 Session layer: 4.1.1 Services: dialog management, synchronization, activity management, exception handling 4.1.2 Remote procedure calls 4.2 Presentation layer: 4.2.1 Services: Translation, compression, encryption 4.2.2 Cryptography: concept, symmetric key & asymmetric key cryptography 4.3 Application layer: 4.3.1 Function4.3.2 Domain name system (DNS),Hypertext Transfer Protocol (HTTP),Simple Mail Transfer Protocol (SMTP) ,Telnet, File Transfer Protocol (FTP)



Annual Teaching Plan

Academic Year: 2021-2022

Semester: V

Department: BCA

Course Title: RDBMS with Oracle

Name of the teacher: Mr. R. S. Sawwant.

Month: September			Module/Unit: 1	Sub-units planned
Lectures	Practical's	Total	Relational Database Management System	
15	05	20		Relational Database Management System: 1.1 Concept of RDBMS, Difference between DBMS and RDBMS, Features of RDBMS. 1.2 Introduction of Oracle, Role and responsibilities of DBA. 1.3 RDBMS Terminology- Relation, Tuple, Cardinality, Attribute, Degree, Primary Key, Domain, Codd's Rules 1.4 Relational Model, Functional Dependencies, Normalization and its types.
Month: October			Module/Unit: 2	Sub-units planned
Lectures	Practical's	Total	Introduction to sql	
15	07	22		INTRODUCTION TO SQL: 2.1 Features of SQL, Data types, 2.2 Classification of SQL Commands – DDL (create, alter, drop), DML (insert, update, delete), DCL (grant, revoke), TCL (rollback, commit). 2.3 SQL Integrity Constraints-(Primary key, Foreign key, unique key, not null, default, check) 2.4 Select statement with group by and order by clause 2.5 SQL Operators-arithmetic, relational, Logical, Like, Between, IN operator 2.6 SQL Functions- Arithmetic functions, Conversion Functions, Date function, Aggregate functions, String functions.
Month: November			Module/Unit: 3	Sub-units planned
Lectures	Practical's	Total	Join and sub queries:	
15	07	22		JOIN AND SUB QUERIES: 3.1 Join types - Inner Join, Outer Join, Cross Join and self-Join 3.2 Sub-queries, Multiple sub queries, nesting of sub queries, sub queries in DML commands. 3.3 Correlated queries, Indexes, Sequences. Views-Create View, Drop, View and its Advantages. , Denial of service (DoS), Firewall and proxy server.
Month: December			Module/Unit: 4	Sub-units planned
Lectures	Practical's	Total	Introduction to pl/sql	
15	07	22		INTRODUCTION TO PL/SQL: 4.1 Introduction to PL/SQL, Block Structure 4.2 Data types in PL-SQL 4.3 Control Structures-Branching statements, Iterative Control statements. 4.4 Cursors –Concept, Types- Implicit, Explicit, Procedure to create explicit cursors, Cursor Attributes. 4.5 TRIGGERS: Concept and types.



Annual Teaching Plan

Academic Year: 2021-2022

Semester: V

Department: BCA

Course Title: Visual Programming

Name of the teacher: Mr. R. S. Sawant

Month: September			Module/Unit: 1	Sub-units planned
Lectures	Practical's	Total	Introduction	
15	02	17		Introduction 12 1.1 overview, Architecture, Features of .NET 1.2 Meta data, CLR, Managed and unmanaged code 1.3 CTS, CLS, .NET base classes 1.4 Introduction to Visual Studio .NET IDE 1.5 Types of JIT compiler
Month: October			Module/Unit: 2	Sub-units planned
Lectures	Practical's	Total	Introduction To C#	
15	07	22		Introduction To C# 12 2.1 Introduction to C#, Entry point method, command line arguments 2.2 Compiling and building projects, Compiling a C# program using command line utility, CSC.EXE, Different valid forms of main. 2.3 Global stack and heap memory, reference type and data type, casting implicit and explicit 2.4 Boxing and unboxing, pass by value and pass by reference and out parameters 2.5 Partial class, DLL, Difference between DLL and EXE
Month: November			Module/Unit: 3	Sub-units planned
Lectures	Practical's	Total	Introduction to Web Programming	
15	05	20		Introduction to Web Programming 12 3.1 Understanding role of WEB server and WEB browser, HTTP request and response structure. 3.2 Introduction to ASP, Types of path, FORM tag 3.3 Types of server controls 3.4 Validation controls-Base validator, compare validator, range validator, grouping control validator 3.5 Web forms life cycle 3.6 Event handling in WEB forms, response.redirect, server.response, cross page post back property of button 3.7 ASP.NET state management 3.8 WEB.config, globalization and localization, AppDomain
Month: December			Module/Unit: 4	Sub-units planned
Lectures	Practical's	Total	ADO .NET	
15	07	22		ADO .NET 12 4.1 Introduction to ADO.Net 4.2 ADO.NET Architecture- Connction, command, dat reader, data adapter, data set 4.3 Understanding connected layaer of ADO.NET and disconnected layer of ADO.NET



Academic Year: 2021-2022

Annual Teaching Plan

Semester: VI

Department: BCA

Course Title: Strategic Management

Name of the teacher: Ms. Vaishali D. Patil.

Month: March			Module/Unit: 1	Sub-units planned
Lectures	Practical's	Total	Introduction to Strategic Management	Introduction to Strategic Management Concept of Mission, Vision, Objectives, Concept of Strategy, Importance of Strategy, Levels of Strategy, Strategic Management Process – Different Phases.
15	00	15		
Month: April			Module/Unit: 2	Sub-units planned
Lectures	Practical's	Total	Environment Analysis	Environment Analysis Concept and Characteristics of environment, components of internal environment, SWOC, Components of external environment, PESTEL Framework – Porter's Five Forces Model.
15	00	15		
Month: May			Module/Unit: 3	Sub-units planned
Lectures	Practical's	Total	Strategies Types and Analysis	Strategies Types and Analysis Corporate strategies: stability strategy, expansion strategy, retrenchment strategy.- adv/disadv. Competitive strategy: cost leadership, Differentiation and Focus Strategy – Types – adv/disadv. BCG Matrix, TOWS Matrix, ANSOFF Matrix.
15	00	15		
Month: June			Module/Unit: 4	Sub-units planned
Lectures	Practical's	Total	Strategic Evaluation and Control	Strategic Evaluation and Control Strategic evaluation: imp, problems - Benchmarking for strategy evaluation. Strategic Control : Types and techniques of strategic control, -operational control- managing strategic change-types, mechanism and process of managing strategic change-strategy in global environment-Social & environmental sustainability issues in strategic management, Triple bottom line- Role of Different Strategists- Contemporary practices of strategic management.
15	00	15		



Annual Teaching Plan

Academic Year: 2021-2022

Semester: VI

Department: BCA

Course Title: Data warehousing and data mining

Name of the teacher: Mrs. Megha S. Patil.

Month: March			Module/Unit: 1	Sub-units planned
Lectures	Practical's	Total	Introduction to Data Mining	
15	00	15		Introduction to Data Mining 1.1 Basic Data mining Task 1.2 DM versus Knowledge Discovery in Databases 1.3 Data Mining Issues 1.4 Data Mining Metrics 1.5 Social implementation of Data Mining 1.6 Overview of Application of Data mining 1.6.1 Architecture of DW 1.6.2 OLAP and Data Cubes 1.6.3 Dimensional Data Modeling - star , snowflake schemas 1.6.4 Data processing - Need Data cleaning. Data integration and Transformation, Data reduction 1.6.5 machine learning 1.6.6 pattern matching
Month: April			Module/Unit: 2	Sub-units planned
lectures	Practical's	Total	Data Mining techniques	
15	00	15		Data Mining techniques 2.1 Frequent item - set and association rule mining: apriori algorithm, use of sampling for frequent item- set tree algorithm 2.2 graph sampling : frequent sub graph mining . tree mining ,sequence mining 2.3 Classification and prediction: 2.3.1 Decision tree [3 hrs] 2.3.2 Construction, performance, attribute selection 2.3.3 Issues : Over fitting tree pruning methods, missing values, continuous classes 2.3.4 Classification and regression tree(CART) 2.3.5 Bayesians Classification [6 hrs] 2.3.6 Bayesians theorem , Narvee Bayes classifier
Month: May			Module/Unit: 3	Sub-units planned
Lectures	Practical's	Total	Clustering	
15	00	15		Clustering 3.1 K-means 3.2 expectation maximization (EM) algorithm 3.3 Hierarchical clustering , Carrolton clustering
Month: June			Module/Unit: 4	Sub-units planned
Lectures	Practical's	Total	Software for Data mining and application of Data mining	
15	00	15		Software for Data mining and application of Data mining 4.1 R 4.2 Weka 4.3 Sample applications of data mining



Annual Teaching Plan

Academic Year: 2021-2022

Semester: VI

Department: BCA

Course Title: Linux Operating System

Name of the teacher: Mr. Vijay B. Pujari.

Month: March			Module/Unit: 1	Sub-units planned
Lectures	Practical's	Total	Introduction	Introduction 1.1 Operating system 1.2 Types of operating system 1.3 Functions of operating system 1.4 History and development of Linux 1.5 Features of Linux 1.6 Login , logout procedure, Concept of shell, kernel, Kernel-shell relationship
15	02	17		
Month: April			Module/Unit: 2	Sub-units planned
Lectures	Practical's	Total	Handling files and directory's	Handling files and directory's 2.1 Concept of file, types, file system tree 2.2 Different GPU (clear ,cal , date, wc, who) 2.3 file handling- ls ,cat ,cp, mv , rm commands , listing file names, using meta characters (* , ? , []) 2.4 Concept of directory , home directory , directory handling commands- cd , mkdir, rmdir, pwd. 2.5 Basic file attributes, change file/directory, chmod command 2.6 Filters-cut, paste, sort, unique, head, tail, grep commands. 2.7 Command linking using pipe () operator, command substitution.
15	07	22		
Month: May			Module/Unit: 3	Sub-units planned
Lectures	Practical's	Total	VI editor	VI editor 3.1 Vi Editor, use of VI , features of VI 3.3 Different modes and working with VI editor 3.4 Command mode -cursor movements(k,j,h,l), delete(character, line, word), Screen up , down, use of repeat factor , joining lines (J), searching for pattern (/ and ?) 3.5 Input mode- switching with (l,o,r,s,a,l,O,R,S,A) 3.6 ex mode – saving (w, x, q)
15	05	20		
Month: June			Module/Unit: 4	Sub-units planned
Lectures	Practical's	Total	Simple Shell programming	Simple Shell programming 4.1 Concept of Shell Script, running a shell script 4.2 Statements – read , echo , test , if, case , exit. 4.3 Loops- while, until, for 4.4 Command line arguments 4.5 Exit status of a command
15	05	20		



Annual Teaching Plan

Academic Year: 2021-2022

Semester: VI

Department: BCA

Course Title: Java Programming

Name of the teacher: Mr. R. S. Sawant

Month: March			Module/Unit: 1	Sub-units planned
Lectures	Practical's	Total	Introduction To Java	
15	02	17		Introduction To Java 1.1 History and features of Java Programming 1.2 Difference between Java & C++ 1.3 Java Environment 1.4 Java tokens, constants, variables, data types, type casting 1.5 Operators and Expressions 1.6 Implementing Java Program 1.7 Branching and looping statements 1.8 Class, objects, methods 1.9 Constructors and destructor
Month: April			Module/Unit: 2	Sub-units planned
Lectures	Practical's	Total	Inheritance and Packages	
15	07	22		Inheritance and Packages 2.1 Defining sub class, subclass constructor 2.2 Inheritance-Multiple and hierarchical 2.3 Defining packages, system packages 2.4 Creating & accessing packages 2.5 Adding a class to package 2.6 Polymorphism- function overloading and over ridding, its difference
Month: May			Module/Unit: 3	Sub-units planned
Lectures	Practical's	Total	Multithreading and Exception Handling	
15	05	20		Multithreading and Exception Handling 3.1 Creating threads, extending a thread class- declaring the class, run() method 3.2 Stopping and blocking threads 3.3 Life cycle of thread 3.4 Using thread method 3.5 Thread priority 3.6 Introduction to exception 3.7 Syntax of exception handling code 3.8 Multiple catch statement 3.9 Using finally statement 3.10 Throwing exception
Month: June			Module/Unit: 4	Sub-units planned
Lectures	Practical's	Total	Applets Programming & Introduction to AWT	
15	05	20		Applets Programming & Introduction to AWT 4.1 Introduction to applets 4.2 Building applet code 4.3 Applet life cycle 4.4 Adding applet code to HTML file 4.5 Introduction to Abstract Window Toolkit (AWT)




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