| Department :- Computer Science | | Class :- B. Sc. First Year | |
|---|---|---|---|
| Name of Teacher :- Mrs. Sapana Bunnawar | | Year :- 2017 - 18 | |
| Subject :- Computer Science | | Semester :- I | |
| Paper Name & NO. :- Problem Solving Using Computers    Paper No: I | | | |

| Chapter No. | Topic - Title | Expected Lectures | Expected Duration | |
|---|---|---|---|---|
| | | | From | To |
| I | **Computer Fundamentals** Introduction to Computers, Block diagram of Computer, Characteristics of Computers, I/O Devices, I/O ports. | 6 | 3-Jul-17 | 12-Jul-17 |
| II | **Problem Solving Aspects** Introduction to Algorithm, Top Down Designing, Implementation of Algorithm, Analysis of Algorithm, Flowchart, Principals of Flowcharts, Flowcharts Symbols | 8 | 13-Jul-17 | 25-Jul-17 |
| III | **Fundamentals of Algorithms** Exchanging value of variables, counting numbers, Summation of set of numbers, Factorial computations, Fibonacci number, Reverse of Digits. | 6 | 26-Jul-17 | 10-Aug-17 |
| IV | **Factoring Methods** Finding square root of numbers, smallest divisor of integers, greatest common divisor, generation of prime numbers, prime factor. | 6 | 11-Aug-17 | 24-Aug-17 |
| V | **Array Techniques** Introduction to Array, types of Array, Memory Representation of Array, Reverse of Array, Array counting, Finding maximum and minimum element from Array | 8 | 25-Aug-17 | 10-Sep-17 |
| VI | **Searching & Sorting Techniques** Searching Techniques, linear search, binary search, Sorting Techniques:-bubble sort, selection sort. | 6 | 11-Sep-17 | 1-Oct-17 |

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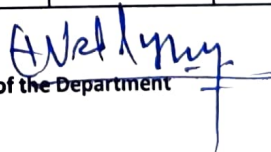A.V.EDUCATION SOCIETY'S
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Head of the Department

| Department :- Computer Science | | Class :- B. Sc. First Year | |
|---|---|---|---|
| Name of Teacher :- Mr. Hangarge D. | | Year :- 2017 - 18 | |
| Subject :- Computer Science | | Semester :- I | |
| Paper Name & NO. :- Web Page Designing Through HTML | | Paper No: II | |

| Chapter No. | Topic - Title | Expected Lectures | Expected Duration | |
|---|---|---|---|---|
| | | | From | To |
| I | **Introduction to Web and Website** Introduction to Internet, Application and importance of Internet, www, URL, Web Browsers, web server, objectives of website, basic interface design, developing a story board for website, Navigation and links within website, checklist for designing. | 6 | 3-Jul-17 | 12-Jul-17 |
| II | **Introduction to HTML** Introduction to HTML, Basic elements, List- ordered/ Numbered list, Unordered/ Bulleted list, Definition list, Nesting list, Linking HTML pages, linking to URL, Text Formatting, Text Alignment, Character Styles, Fonts and Font Sizes, Using colors for the Web, preformatted text, Horizontal line, line break, Displaying special characters. | 8 | 13-Jul-17 | 25-Jul-17 |
| III | **Images in HTML** Images in HTML pages, Embedding inline images and external images, images and text alignment, images and links, alternative tags for images, using image as background, displaying images with heights and width dimensions, images preview, image for the web, reducing file size of image file, decreasing the file size by reducing the colour depth of image file | 6 | 26-Jul-17 | 10-Aug-17 |
| IV | **Tables in HTML** Introduction to tables, Features of tables, Tables in HTML, components of table, creating table, table cell and border, table and cell color | 6 | 11-Aug-17 | 24-Aug-17 |
| V | **Frames, Image Maps** Introduction to Frames, Creating frames, Frames attributes and linking of frames, complex framesets, Inline frames. | 8 | 25-Aug-17 | 10-Sep-17 |
| VI | **Forms and CGI Scripts** Introduction to forms, form design, text input fields, radio buttons, check box buttons, and submit button, additional layout features (select tag, Text AREA tag, and Hidden fields) | 6 | 11-Sep-17 | 1-Oct-17 |

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## Annual Teaching Plan

| | |
|---|---|
| Department :- Computer Science | Class :- B. Sc. First Year |
| Name of Teacher :- Mr. Hangarge D. | Year :- 2017 - 18 |
| Subject :- Computer Science | Semester :- II |
| Paper Name & NO. :- Programming in C | Paper No: III |

| Chapter No. | Topic - Title | Expected Lectures | Expected Duration From | Expected Duration To |
|---|---|---|---|---|
| I | **Introduction to C** Introduction, Character set, C tokens, Data types, Constant, Variables, declaration of storage class,Input/Output Statement, operators, Hierarchy of Operation, Structure of C program. | 5 | 1-Dec-17 | 12-Dec-17 |
| II | **The Decision and Looping, Control Structure** If Statement, If-Else statement, Nesting of If-Else, else-if ladder, Switch Statement, Goto. While loop, Do-While loop, For loop. | 8 | 13-Dec-17 | 22-Dec-17 |
| III | **Arrays and Pointers** Introduction to Array, One-dimensional arrays: Declaration & Initialization, Two-dimensional arrays: Declaration & Initialization, Multi-dimensional arrays Introduction, understanding pointers, accessing address of variable, declaring pointer variables, initialization of pointer variable | 5 | 23-Dec-17 | 2-Jan-18 |
| IV | **Storage Classes** Automatic, Register, Static, Scope rules. | 2 | 3-Jan-18 | 14-Jan-18 |
| V | **Functions** Introduction, Definition of function, return values and their types, function calls, function declaration, recursion, passing arrays to functions,What are string, Standard Library string functions: strlen(), strcpy(),strcmp(), strcat(). | 7 | 15-Jan-18 | 27-Jan-18 |
| VI | **Structure and Union** Introduction, defining a structure , defining a structure variable, accessing structure members, initialization of structure, structure within structure, union, Introduction to File Handling. | 9 | 28-Jan-18 | 8-Feb-18 |

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## Annual Teaching Plan

| Department :- Computer Science | | | Class :- B. Sc. First Year | |
|---|---|---|---|---|
| Name of Teacher :- Mrs. Sapana Bunnawar | | | Year :- 2017 - 18 | |
| Subject :- Computer Science | | | Semester :- II | |
| Paper Name & NO. :- Analysis of Algorithm and Data Structure | | | Paper No: IV | |

| Chapter No. | Topic - Title | Expected Lectures | Expected Duration | |
|---|---|---|---|---|
| | | | From | To |
| I | **Role of Algorithms in Computing** Introduction, Algorithms as a technology, designing Algorithm, divide and conquer technique/ Approach | 8 | 1-Dec-17 | 12-Dec-17 |
| II | **Introduction to Data Structure** Introduction, Elementry data organization, data structure operations, mathematical notations and functions, Algorithmic notations, control structure. | 8 | 13-Dec-17 | 22-Dec-17 |
| III | **Linked List** Introduction, Representation of linked list in memory, Traversing, Searching, Unsorted link list, Inserting after given node, deleting node with a given item of information. | 8 | 23-Dec-17 | 2-Jan-18 |
| IV | **Stack and Queue** Introduction, Memory representation of Stack, Insert element in Stack_PUSH, Delete element from Stack_POP. Queue: Introduction, Memory Representation, Insert & Delete operation. | 8 | 3-Jan-18 | 14-Jan-18 |
| V | **Trees** Introduction, Binary tree & it's Memory representation, Insertion & Deletion of nodes in binary tree, Threaded binary tree. | 8 | 15-Jan-18 | 27-Jan-18 |
| VI | **Graphs** Introduction, Memory Representation of graphs, types of graphs, Warshall's Algorithm. | 8 | 28-Jan-18 | 8-Feb-18 |

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## Annual Teaching Plan

| Department :- Computer Science | Class :- B. Sc. Second Year |
|---|---|
| Name of Teacher :- Mr. Jadlawar Y.G. | Year :- 2017 - 18 |
| Subject :- Computer Science | Semester :- III |
| Paper Name & NO. :- Operating System | Paper No: VI |

| Chapter No. | Topic - Title | Expected Lectures | Expected Duration | |
|---|---|---|---|---|
| | | | From | To |
| I | **Overview of Operating System -** Introduction, What Operating Systems Do, Computer-System Organization, Computer- System Architecture, Special-Purpose Systems, Operating-System Structure, Operating- System Operations, Process Management, Memory Management, Storage Management, Protection and Security, Distributed Systems, Special-Purpose Systems, Computing Environments | 8 | 3-Jul-17 | 12-Jul-17 |
| II | **Exploring Operating System -** Operating-System Services, User Operating-System Interface, System Calls, Types of System Calls, System Programs, Operating-System Design and Implementation, Operating-System Structure, Virtual Machines, Operating-System Generation, System Boot | 8 | 13-Jul-17 | 25-Jul-17 |
| III | **Process & Threads -** Process Concept, Process Scheduling, Operations on Processes, Inter-process Communication, Examples of IPC Systems, Communication in Client- Server Systems, Overview of threads, Multithreading Models | 8 | 26-Jul-17 | 10-Aug-17 |
| IV | **Memory -** Background, Swapping, Contiguous Memory Allocation, Paging, Structure of the Page Table, Segmentation, virtual memory | 8 | 11-Aug-17 | 24-Aug-17 |
| V | **File System -** File Concept, Access Methods, Directory Structure, File-System Mounting, File Sharing, Protection, File-System Structure | 8 | 25-Aug-17 | 10-Sep-17 |
| VI | **Protection in Operating System -** Goals of Protection, Principles of Protection, Domain of Protection, Access Matrix, Implementation of Access Control, Revocation of Access Rights, Capability-Based Systems, Language-Based Protection | 8 | 11-Sep-17 | 1-Oct-17 |

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Head of the Department

| Department :- Computer Science | Class :- B. Sc. Second Year |
|---|---|
| Name of Teacher :- Mrs. Sapna Bunnawar | Year :- 2017 - 18 |
| Subject :- Computer Science | Semester :- III |
| Paper Name & NO. :- Programming in C++ | Paper No: VII |

| Chapter No. | Topic - Title | Expected Lectures | Expected Duration From | Expected Duration To |
|---|---|---|---|---|
| I | **Object Oriented Programming & C++ -** Object Oriented Programming Paradigm, Basic Concepts of OOP, Benefits of OOP, Object Oriented Languages, Applications of OOP, A Simple C++ Program, More C++ Statements, Structure of C++ program. | 10 | 3-Jul-17 | 12-Jul-17 |
| II | **Basics of C++** Introduction, Tokens, Keywords, Identifiers & Constants, Basic Data Types, User-defined Data Types, Derived Data Types, Variables : declaration & dynamic initialization, Reference variables, Operators in C++ : Scope Resolution, Manipulators, Operator Precedence, Decision Control & Loop Control Structures: If, If-else, Nested If, Else-if ladder, switch, goto, break statement, while, do-while, for. | 12 | 13-Jul-17 | 25-Jul-17 |
| III | **Functions in C++** Introduction, Function Prototyping, Call by Value & Call by reference, inline function, default arguments, Function Overloading, Library Functions | 10 | 26-Jul-17 | 10-Aug-17 |
| IV | **Classes & Constructors in C++** Introduction, Structures, Specifying a Class, Defining member functions, Memory allocation for objects, Static Data Members, Static Member Functions, Objects as Function arguments, Friend Functions. Introduction to Constructors, Parameterized Constructors, Copy Constructors, Multiple Constructors in a class, destructors. | 10 | 11-Aug-17 | 24-Aug-17 |
| V | **Operator Overloading** Introduction, Defining Operator overloading, Overloading Unary Operators, Overloading binary operators, overloading binary operator using friend, Rules for overloading operators | 10 | 25-Aug-17 | 10-Sep-17 |
| VI | **Inheritance in C++** Introduction, defining derived classes, single inheritance, multilevel inheritance, multiple inheritance, hierarchical inheritance, hybrid inheritance, virtual base classes, Abstract classes. | 10 | 11-Sep-17 | 1-Oct-17 |

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| Department :- Computer Science | Class :- B. Sc. Second Year |
|---|---|
| Name of Teacher :- Mr. Jadlawar Y.G. | Year :- 2017 - 18 |
| Subject :- Computer Science | Semester :- IV |
| Paper Name & NO. :- Computer Network | Paper No: VIII |

| Chapter No. | Topic - Title | Expected Lectures | Expected Duration | |
|---|---|---|---|---|
| | | | From | To |
| I | **Introduction to Network** Definition & Applications of Computer Network, Data Transmission Modes, Protocol Hierarchies, Design issues for layers, Connection Oriented & Connectionless services. Service Primitives. Network Models – OSI/ISO Reference Model & TCP/IP Model, | 8 | 1-Dec-17 | 12-Dec-17 |
| II | **Network Hardware** Network Topologies, Network Devices - NIC Cards, Hub, Switch, Bridges, Wireless access points, Router, Gateways, Modems, ISDN Terminal Adaptor, Repeaters, Types of Networks | 8 | 13-Dec-17 | 22-Dec-17 |
| III | **Transmission Media** Magnetic Media, Twisted pair, Co-axial cable , fibre optics , radio transmission, Wireless transmission, Bluetooth. | 8 | 23-Dec-17 | 2-Jan-18 |
| IV | **Telephone System** Structure of telephone system, Transmission & Switching, Trunks & Multiplexing ,Type of Switching, Introduction to mobile telephone system. | 10 | 3-Jan-18 | 14-Jan-18 |
| V | **Internetworking protocols** Network Protocols, Email Architecture, Web server, Browsers, Domain Name System, IP protocol, IP addresses , IPv6. Introduction to Wi-Fi & 4G technology. | 8 | 15-Jan-18 | 27-Jan-18 |
| VI | **Network Security & Cryptography** Introduction to Security & Cryptography, Security concepts- Computer Security, Network Security, Information Security, Firewall, Working of Firewalls, Conventional Cryptography, Caesar's Cipher, public key Cryptography. | 8 | 28-Jan-18 | 8-Feb-18 |

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## Annual Teaching Plan

| Department :- Computer Science | Class :- B. Sc. Second Year |
|---|---|
| Name of Teacher :- Mrs. Sapna Bunnawar | Year :- 2017 - 18 |
| Subject :- Computer Science | Semester :- IV |
| Paper Name & NO. :- Programming in JAVA | Paper No: IX |

| Chapter No. | Topic - Title | Expected Lectures | Expected Duration From | Expected Duration To |
|---|---|---|---|---|
| I | **Java Evolution.** Java History, Java Features, How java differs From C and C++, Java and Internet. Java & WWW, Web Browsers, Java support systems, Java Environment | 8 | 1-Dec-17 | 12-Dec-17 |
| II | **Overview of Java** Introduction, simple java program, More JAVA Statements, An application with two classes, Java program structure, implementation of a java program, JAVA Virtual Machine, Command Line Arguments Java Tokens , Constants, Variables, Data Types, Declaration of variable, Giving Values to variables, Scope of Variables, Symbolic Constants, Type Casting, Getting Values of variables, Standard Default values, Java Statements | 8 | 13-Dec-17 | 22-Dec-17 |
| III | **Classes, Object and Methods** Introduction, Defining a class, Adding variables, Adding Methods, Creating Objects, Accessing Class Members, Constructors. Method Overloading, Static Members, Nesting of Method, Inheritance: Extending a class, Overriding Method, Final variable and Methods. | 8 | 23-Dec-17 | 2-Jan-18 |
| IV | **Interfaces - Multiple Inheritances** Introduction, Defining Interface, Extending Interface, Implementing Interface, Accessing Interface Variables | 8 | 3-Jan-18 | 14-Jan-18 |
| V | **Arrays and Strings** Introduction, One-dimensional Arrays, Creating an one dimensional array, Two dimensional Arrays, Creating an two dimensional array, String Arrays, String Method | 8 | 15-Jan-18 | 27-Jan-18 |
| VI | **Packages and Applets** Introduction, Java API package, Using system packages, Naming Conventions, Creating Packages, Accessing a package, Using a Package, Adding a class to a package. Introduction, how applets differ from applications, preparing to write applets, building applet code, applet life cycle | 8 | 28-Jan-18 | 8-Feb-18 |

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| Department :- Computer Science | Class :- B. Sc. Third Year |
|---|---|
| Name of Teacher :- Mr. Jadlawar Y.G. | Year :- 2017 - 18 |
| Subject :- Computer Science | Semester :- V |

**Paper Name & NO. :-Software Engineering    Paper No: XII**

| Chapter No. | Topic - Title | Expected Lectures | Expected Duration From | Expected Duration To |
|---|---|---|---|---|
| I | Introduction to Software Engineering: Definitions - Size Factors - Quality and Productivity, Factors - Managerial Issues - Planing a software project : Defining the problem - Developing a Solution Strategy - Planning the Development Process - Planning an Organization structure - Other Planning Activities. | 9 | 3-Jul-17 | 12-Jul-17 |
| II | Software Cost Estimation: Software cost factors - Software Cost Estimation Techniqes -Staffing-level Estimation - Estimating Software Maintenance Costs - The Software Requirements Specification - Formal Specification Techniques - Languages and Processors for Requirements Specification. | 9 | 13-Jul-17 | 25-Jul-17 |
| III | Software design: Fundamental Design Concepts - Modules and Modularization Criteria - Design Notations - Design Techniques - Detailed Design Considerations - Real-Time and Distributed System Design - Test Plans - Milestones, walkthroughs, and Inspections. | 10 | 26-Jul-17 | 10-Aug-17 |
| IV | Implementation issues: Structured Coding Techniques - Coding Style - Standards and Guidelines - documentation guidelines -Type Checking - Scoping Rules - Concurrency Mechanisms. | 10 | 11-Aug-17 | 24-Aug-17 |
| V | Quality Assurance - Walkthroughs and Inspections - Static Analysis - Symbolic Execution | 8 | 25-Aug-17 | 10-Sep-17 |
| VI | Testing and Debugging - System Testing - Formal Verification: Enhancing Maintainability during Development - Managerial Aspects of Software Maintenance - Source Code Metrics - Other Maintenance Tools and Techniques. | 8 | 11-Sep-17 | 1-Oct-17 |

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| Department :- Computer Science | Class :- B. Sc. Third Year |
|---|---|
| Name of Teacher :- Mrs. Vaishali Wangikar | Year :- 2017 - 18 |
| Subject :- Computer Science | Semester :- V |
| Paper Name & NO. :-Relational Database Management System   Paper No: XIII | |

| Chapter No. | Topic - Title | Expected Lectures | Expected Duration From | To |
|---|---|---|---|---|
| I | Advantages and Components of a Database Management Systems - Feasibility Study - Class Diagrams - Data Types - Events - Normal Forms - Integrity - Converting Class Diagrams to Normalized Tables - Data Dictionary. | 10 | 3-Jul-17 | 12-Jul-17 |
| II | Query Basics - Computation Using Queries - Subtotals and GROUP BY Command - Queries with Multiple Tables Subqueries - Joins - DDL & DML - Testing Queries. | 10 | 13-Jul-17 | 25-Jul-17 |
| III | Effective Design of Forms and Reports - Form Layout - Creating Forms - Graphical Objects - Reports -- Procedural Languages - Data on Forms - Programs to Retrieve and Save Data - Error Handling. | 10 | 26-Jul-17 | 10-Aug-17 |
| IV | Power of Application Structure - User Inteiface Features - Transaction -- Forms Events - Custom Reports - Distributing Application - Table Operations - Data Storage Methods - Storing Data Columns - Data Clustering and Partitioning. | 10 | 11-Aug-17 | 24-Aug-17 |
| V | Database Administration - Development Stages - Application Types - Backup and Recovery - Security and Privacy – | 8 | 25-Aug-17 | 10-Sep-17 |
| VI | Distributed Databases - Client/Server Databases - Web as a Client/Server System - Objects - Object Oriented Databases - Integrated Applications | 8 | 11-Sep-17 | 1-Oct-17 |

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## Annual Teaching Plan

| Department :- Computer Science | Class :- B. Sc. Third Year |
|---|---|
| Name of Teacher :- Mrs. Vaishali Wangikar | Year :- 2017 - 18 |
| Subject :- Computer Science | Semester :- VI |
| Paper Name & NO. :- Programming in Visual Basic | Paper No: XIV |

| Chapter No. | Topic - Title | Expected Lectures | Expected Duration | |
|---|---|---|---|---|
| | | | From | To |
| I | Introduction to Windows , GUI concept, Concept of Event driven programming, The Visual Basic IDE ,Types of Visual Basic Projects, Visual Basic Editions, The Visual Basic Project Lifecycle, Project Files. | 10 | 1-Dec-17 | 12-Dec-17 |
| II | Customizing a Form - Writing Simple Programs - Toolbox - Creating Controls - Name Property - Command Button - Access Keys - Image Controls - Text Boxes - Labels - Message Boxes - Grid - Editing Tools - Variables - Data Types - String - Numbers. | 12 | 13-Dec-17 | 22-Dec-17 |
| III | Displaying Information - Determinate Loops - Indeterminate Loops - Conditionals - Built-in Functions - Functions and Procedures. | 13 | 23-Dec-17 | 2-Jan-18 |
| IV | Lists - Arrays - Sorting and Searching - Records - Control Arrays - Combo Boxes - Grid Control - Projects with Multiple forms - Do Events and Sub Main - Error Trapping. | 10 | 3-Jan-18 | 14-Jan-18 |
| V | VB Objects - Dialog Boxes - Common Controls - Menus - MDI Forms - Testing, Debugging and Optimization - Working with Graphics. | 9 | 15-Jan-18 | 27-Jan-18 |
| VI | Monitoring Mouse activity - File Handling - File System Controls - File System Objects - COM/OLE - automation - DLL Servers - OLE Drag and Drop. | 9 | 28-Jan-18 | 8-Feb-18 |

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## Annual Teaching Plan

| Department :- Computer Science | Class :- B. Sc. Third Year |
|---|---|
| Name of Teacher :- Mr. Jadlawar Y.G. | Year :- 2017 - 18 |
| Subject :- Computer Science | Semester :- VI |
| Paper Name & NO. :- Computer Network    Paper No: XV (A) | |

| Chapter No. | Topic - Title | Expected Lectures | Expected Duration From | To |
|---|---|---|---|---|
| I | Overview  Networking terminology, network types-Transmission Media,Control Schemes Layered Architecture ,OSI Reference Model , | 10 | 1-Dec-17 | 12-Dec-17 |
| II | TCP/IP Reference Model ,Telephone Networks Leased Lines ,PSTN,ISDN ,Broadband Communications ISPs. | 12 | 13-Dec-17 | 22-Dec-17 |
| III | Geographical Classifications of Network ,Ethernet ,LAN Interconnection ,Topologies- Fast Ethernets , VLANs ,Protocols ,Frame Relay, MAN ,IP Addresses , Routing Algorithms ,Internet Routing | 13 | 23-Dec-17 | 2-Jan-18 |
| IV | TCP/IP , UDP, Wireless TCP , DNS, Electronic Mail , FTP , TFTP , SNMP etc. | 10 | 3-Jan-18 | 14-Jan-18 |
| V | Wireless Networks , Blue Tooth ,Cellular Radio Networks ,Wireless LANs ,Cable Television Networks ,Satellite Television Networks ,Interactive Services. | 9 | 15-Jan-18 | 27-Jan-18 |
| VI | Internet ,Web Servers , Applications , URLs- WWW- HTTP & MIME ,HTML & XML Protocols Languages ,Scripts, RTSP , WAP , Securities Basic Techniques -Data Encryption, Authentication ,Network and Web Security ,Privacy. | 9 | 28-Jan-18 | 8-Feb-18 |

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