Rajarshi Shahu Mahavidyalaya, (Autonomous), Latur

Teaching Plan (Semester-III)

(July – 2020 to Oct-2021)

1. **Details of Classes to be taught**

Sr. No.	Class	Name of Asst. Prof.	Subject	Paper	Total Lecturers:
1	B. Voc. SY	Suchitra K. Kasbe	Computer Technology	U-OOP-431 Object Oriented Programming through C++	60

2. **Summary of Lesson Plan**

Sr. No.	**Unit and Chapter to be covered**	**Expected No. of Lectures**	**Date**	**Academic activities to be organized**	**No. of Test / Assignment with topic and date**
1	**Unit-I : Introduction to OOPs and Basics of C++** Need object oriented programming comparison of procedural and object oriented approach object classes polymorphism inheritance reusability data hiding and abstraction applications of OOPs Character Set, identifiers and keywords, data types, constants, variables and arrays, Operators and	20	13.07.2020 To 21.07.2020 22.07.2020 To 30.07.2020 31.07.2020	PPT representation for basic concepts of oop	--

	Expressions, Conditional Statements and Loops, Switch Statement		To 06.08.2020		
2	**Unit-II: Functions, Classes and Objects** defining a function accessing a function Passing arguments to a function specifying argument data types function prototypes recursion Class declaration constructors constructor initialization lists access functions private member functions the copy constructor the class destructor pointers to object static data members static function members friend function Operator Overloading overloading the assignment operator the this pointer overloading arithmetic operators overloading the arithmetic assignment operators overloading the relational operators overloading the increment and decrement operators overloading the subscript operator	20	07.08.2020 To 13.08.2020 14.08.2020 To 21.08.2020 22.08.2020 To 31.08.2020	Program Assignment	Activity based Unit Test-I
3	**Unit-III: Inheritance and File Handling** Introduction,	10	1.09.2020	PPT Presentation on Inheritance	--

	inheritance protected class members overriding, Private access verses protected access virtual functions and polymorphism virtual destructors abstract base classes File Handling Classes for file stream operations opening and closing a file detecting end of file file modes file pointers and their manipulations sequential input and output operations random access file operations error handling command line arguments		To 4.09.2020 5.09.2020 To 9.09.2020 10.09.2020 To 11.09.2020		
4	**Unit-IV: Templates and Exception Handling** function templates class templates container classes subclass templates passing template classes to template parameters Exception Handling Introduction Exception Handling Mechanism Concept of throw & catch with example	10	12.09.2020 To 15.09.2020 16.09.2020 To 30.09.2020 30.09.2020 To 30.09.2020	Class test	Unit Test II (MCQ)

Rajarshi Shahu Mahavidyalaya, (Autonomous), Latur

Teaching Plan (Semester-V)

(July – 2020 to Oct-2020)

1. **Details of Classes to be taught**

Sr. No.	Class	Name of Asst. Prof.	Subject	Paper	Total Lecturers:
1	B. Voc. TY	Suchitra K. Kasbe	Computer Technology	U-FOSS-660 Free and Open Source Software	60

2. **Summary of Lesson Plan**

Sr. No.	Unit and Chapter to be covered	Expected No. of Lectures	Date	Academic activities to be organized	No. of Test / Assignment with topic and date
1	**Unit-I** Notion of Community–Guidelines for effectively working with FOSS community–, Benefits of Community based Software Development –Requirements for being open, free software, open source software –Four degrees of freedom – FOSS Licensing Models – FOSS Licenses – GPL- AGPL- LGPL – FDL – Implications – FOSS examples.	15	13.07.2020 To 17.07.2020 18.07.2020 To 23.07.2020 24.07.2020	PPT Presentation on Software Licensing Models	--

	FOSS Operating System: Introduction to O.S, examples of FOSS operating system.		To 29.07.2020		
2	**Unit- II** Linux Basic History of Linux, Comparison of Linux with Windows, Linux as Layered structure. Linux commands ls, rm, cp,cd, mkdir, mv, more, head, tail, pwd, chmod, tar, gzip, echo, date, cal, bc, cut, paste, sort command. grep with all options, man, info, ps, kill, fg,bg, redirection and pipe command. Linux Tree Structure, Creating user and assigning password, creating user defined command. Linux shell scripts vi Editor Basic Concepts, Shell Programming, Types of Shell, Environment Variables, Programming Construct: loops, conditions, logical operators, case constructs, if statement. **Google Drive:** Introduction, create an account, upload, download, delete and restore files in Google drive	08 05	30.07.2020 To 03.08.2020 4.08.2020 To 8.08.2020 10.08.2020 To 15.08.2020	Assignment for Shell programs	Activity based Unit Test-I

3	**UNIT- III** **Google Docs:** Introduction, Creating Your First Document, Naming the Document, Entering Text, Saving the Document, Introducing Formatting, Using the Formatting Toolbar, Printing a Document, Inserting Page Breaks, Checking Your Spelling, Choosing Your Print Settings, Exporting and Printing the Document, Deleting a Document, Formatting Document Formatting a Document, Using a Dictionary, Thesaurus, or Encyclopedia, Taking Your Docs to the Next Level: Lists, Tables, and Insertions, Working with Lists, Creating a List, Editing a List, Adding Tables to a Document, Creating a Table, Editing a Table, Inserting	05 02	17.08.2020 To 20.08.2020 21.08.2020 To 26.08.2020	Create Google account and use Google Products	--

	and Editing Images, Creating a Table of Contents, Editing a Table of Contents, Sharing a Document, Choose Sharers and Set Permissions **Google Sheets:** Introduction, Creating Google Sheets, Format Cells, Rows, Columns and Entire Worksheet, Editing, Printing, Working With Formulas And Functions, Creating Charts **Google Forms:** Introduction, Create A Google Form, Adding a Question, Adding Text, Adding an Image, Copying and Deleting Questions, Require a Response, Rearranging Questions and Images Question Types: Introduction, Short Answer, Paragraph, Multiple Choice,Checkboxes, Dropdown, File Upload, Linear Scale, Multiple Choice Grid, Checkbox Grid, Date and Time.	3	27.08.2020 To 5.09.2020		

	Form and Question Setting, Response Validation Changing Color and Backgrounds, Viewing Responces				
4	**Unit: IV** **Google Scholar:** Introduction, Create a Profile, Adding The Paper in Library, Searching The Papers. **Google sites:** Introduction , Google Sites Setup, Create Your Site, Customize The Site and Update The Look Of Site, Create More Pages, Add Content to Your Pages, Review The Content Tips and Resources Review and Share. **Google Slides:** Introduction, Navigating Google Slides, Working With Templates And Existing Presentations, The Basics Of Creating Presentation, Applying Themes, Background, and Layouts To Slides, Entering , Editing And Formatting Text, Inserting Images on Slides,	06 05	07.09.2020 To 12.09.2020 14.09.2020 To 18.09.2020	To create own video and update using OBS studio	Unit Test II (MCQ)

	Adding Transitions, Animations and Videos. **Introduction to OBS:** Introduction, OBS Interface, OBS Setting, Creating a video.	04	19.09.2020 To 23.09.2020		

Rajarshi Shahu Mahavidyalaya, (Autonomous), Latur

Teaching Plan (Semester-V)

(July – 2020 to Oct-2020)

1. **Details of Classes to be taught**

Sr. No.	Class	Name of Asst. Prof.	Subject	Paper	Total Lecturers:
1	B. Voc. TY	Suchitra K. Kasbe	Computer Technology	U-MAP-663 Mobile Application Development	60 (Credit 4)

2. **Summary of Lesson Plan**

Sr. No.	**Unit and Chapter to be covered**	**Expected No. of Lectures**	**Date**	**Academic activities to be organized**	**No. of Test / Assignment with topic and date**
1	**Unit I Introduction** Introduction to Mobile Programming, Overview of the Operating Systems used on different mobile devices, Introduction to Android Android History Android Features and Versions, Various IDE for Android, Installing Android Studio.	08 08	13.07.2020 To 17.07.2020 18.07.2020 To 31.07.2020	Identify the versions of android studio	--
2	**Unit II Android Architecture** Linux Kernal, Dalvik Virtual Machine,			Create the project and observe the working of	Activity based Unit Test-I

	Android Stack, Android applications structure, Creating a project, Working with the AndroidManifest.xml, Using the log system, Activities.	8 7	01.08.2020 To 08.08.2020 10.08.2020 To 18.08.2020	Androidmanifext.xml file	
3	**Unit III : User Interface(UI) Architecture** Application context, Intents, Activity life cycle, Supporting multiple screen sizes, Android Components, Android Application Structure, call Back Methods	 05 12	 19.08.2020 To 27.08.2020 28.08.2020 To 05.09.2020	 -- 	 --
4	**Unit IV User Interface Widgets** Text controls, Button controls, Toggle buttons, Images, Notification and Toast- Parameters on Intents, Pending intents, Status bar notifications, Toast notifications	 7 8	 07.09.2020 To 15.09.2020 16.09.2020 To 30.09.2020	 Create a simple application using different controls 	Unit Test II (MCQ)

Rajarshi Shahu Mahavidyalaya, (Autonomous), Latur

Teaching Plan (Semester-I)

(July – 2020 to Oct-2020)

1. **Details of Classes to be taught**

Sr. No.	Class	Name of Asst. Prof.	Subject	Paper	Total Lecturers:
1	M. Sc. (CS)FY	Suchitra K. Kasbe	Computer Science	P_DAM_130 Data Mining	60 (Credit 4)

2. **Summary of Lesson Plan**

Sr. No.	**Unit and Chapter to be covered**	**Expected No. of Lectures**	**Date**	**Academic activities to be organized**	**No. of Test / Assignment with topic and date**
1	**Unit I: Introduction to Data mining with related concepts** Basic Data Mining Tasks, Data Mining Issues. Knowledge Discovery in Databases (KDD Process). OLTP system, Information Retrieval system, Decision Support Systems, Multidimensional Schemas, OLAP, Web Search Engines.	08 07	01.01.2021 To 9.01.2021 10.01.2021 To 19.01.2021	PPT representation on all unit	--
2	**Unit II: Data Mining Techniques: Classification** **Data Mining Techniques:** Classification -			PPT representation on all unit	Activity based Unit Test-I

	Introduction to Data Mining Techniques. A statistical Perspective on Data Mining, Decision Trees, Neural Networks. Issues in Classification, Bayesian Classification, and Distance Based Algorithms, **Decision Tree Based Algorithm:** CART, Neural Network-Based Algorithm: NN Supervised Learning.	7 8	20.01.2021 To 27.01.2021 29.01.2021 To 5.02.2021		
3	**Unit III: Clustering and Association Rules** Clustering and Association Rules, Introduction to Clustering, Outliers, K-Means clustering, Nearest Neighbor Algorithm, BRICH algorithm. Introduction to Association Rules, Large Item sets, **Basic Algorithms:** Apriori Algorithm, Data Parallelism, Comparing Approaches.	07 08	6.02.2021 To 13.02.2021 14.02.2021 To 23.02.2021	PPT representation on all unit	--
4	**Unit IV: Applications and Trends in Data Mining** **Data Mining Applications**: Web mining, Image mining, Text mining, Spatial mining,	8	24.02.2021 To 05.03.2021	PPT representation on all unit	Unit Test II (MCQ)

	Fraud Detection, CRM(Customer Relationship Management), Education, Health Care etc., Data Mining System Products.	7	6.03.2021 To 31.03.2021		

Rajarshi Shahu Mahavidyalaya, (Autonomous), Latur

Teaching Plan (Semester-I)

(July – 2020 to Oct-2020)

3. Details of Classes to be taught

Sr. No.	Class	Name of Asst. Prof.	Subject	Paper	Total Lecturers:
1	B. Sc. FY	Suchitra K. Kasbe	Computer Science	U-COS-141 Fundamentals of Computer	45 (Credit 2)

4. Summary of Lesson Plan

Sr. No.	Unit and Chapter to be covered	Expected No. of Lectures	Date	Academic activities to be organized	No. of Test / Assignment with topic and date
1	**UNIT I: Introduction to Computers and Data Representation** **Introduction** Basic Structure of computer, ALU, Memory, CPU, I/O devices, Generations of Computer, Evolution of computer **Classification of computers**: Notebook computers, personal computers, Workstation, micro, mini, mainframe, super computers, Computer Codes. **Introduction to number system**: Decimal, Binary, Octal, Hexadecimal.	06 07	09.09.2020 To 19.07.2020 20.07.2020 To 31.07.2020	PPT representation on all unit Assignment Questions	--

	Conversions: Binary Arithmetic, Floating point numbers				
2	**UNIT II: Input / Output Devices and Memory** **Input Devices:** Keyboard, Point & Draw Devices, Data Scanning Devices, Digitizer, Electronic Card Reader, Voice Recognition Devices. **Output Devices:** Monitor, Printer, Plotter, Screen Image Projector, Voice Response System. **Memory:** RAM, ROM, PROM, EPROM, EEPROM Base Memory, Extended Memory, Expanded Memory, Cache Memory **Storage Devices:** Tape, FDD, HDD, CD ROM	5 5	01.08.2020 To 08.08.2020 10.08.2020 To 18.08.2020	PPT representation on all unit MCQ Quiz	Activity based Unit Test-I
3	**UNIT III: Computer Software and Introduction to OOPs** Definition of Software, Types of Software, Operating System Main function of operating system, Files and Directories, Types of	06	19.08.2020 To 27.08.2020	PPT representation on all unit MCQ Quiz	--

	OS Introduction to DOS, Introduction to Windows, Structured Programming, What is OOPs? Basics of OOPs	06	28.08.2020 To 05.09.2020		
4	**UNIT IV: Computer Networks and Introduction to Internet** Definition of computer network Network types: LAN, MAN and WAN Network Topologies: Star, Ring, Hybrid Network Wireless Networks, Different Search Tools, Web Browsers, Definition, Uses of Internet Basic Services: Electronic mail, File Transfer Protocol, Telnet	5 5	07.09.2020 To 16.09.2020 18.09.2020 To 20.02.2021	PPT representation on all unit MCQ Quiz	Unit Test II (MCQ)

Suchitra K. Kasbe
Teacher

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Rajarshi Shahu Mahavidyalaya, (Autonomous), Latur

Teaching Plan (Semester-IV)

(March – 2021 to May-2021)

3. Details of Classes to be taught

Sr. No.	Class	Name of Asst. Prof.	Subject	Paper	Total Lecturers:
1	B. Sc. SY	Suchitra K. Kasbe	Computer Technology	U_COS_443 Programming in Java	45

4. Summary of Lesson Plan

Unit	Topics To be Covered	Date	No. of Lectures	Academic activities to be organized	No. of Test / Assignment with topic and date
Unit I	**UNIT- I: An Introduction to Java** Introduction to Object Oriented Programming, Basic concepts of OOPs, A Short History of Java, Features of Java, Difference between Java and C++, Java virtual machine (JVM), Java program structure, Java statement , Types of Comments, Keywords, Data Types , Variables and Constants, Operators, Output using println() method, Simple Java Program, Command Line Arguments.	**Total** 1.03.2021 To 10.03.2021 15.03.2021 To 17.03.2021 22.03.2021 To 24.03.2021	**12** **4** **4** **4**	**Quiz Question Answer**	

Unit II	**Unit – II: Decision Making, Branching, Looping and Classes, Object and Methods** Decision making statement, Simple if statement, if…else statement, Nesting of if…else, Switch statement, while statement, do statement, for statement. Introduction, defining a class, Adding variables, Adding Methods, Accessing Class Members, Constructors, Method Overloading, Static Members, Inheritance: Extending a class, Overriding Method	**Total** 29.03.2021 To 31.03.2021 05.04.2021 To 19.04.2021 20.04.2021 To 27.04.2021	**13** **03** **04** **06**	**Program Assignments**	Activity Based Test on Unit I and Unit II 22 March to 27 March 2021

Unit III	**Unit –III: Arrays. Strings, Vectors and Creating and Using Packages** Introduction, One-dimensional Arrays: Creating an one dimensional array, Two-dimensional Arrays: Creating an two dimensional array, String Arrays, String Method Introduction, Java API package, Using system packages, Naming Conventions, Creating Packages, Accessing a package, using a Package, Adding a class to a package	**Total** 28.04.2021 To 5.04.2021 10.05.2021 To 17.05.2021 18.05.2021 To 19.05.2021	**10** 04 04 02	**Programs on packages and array**	
Unit IV	**Unit – IV: Exception Handling and Applet Programming** Dealing Errors, Catching exception and exception handling, create user defined exception. Applet Life Cycle, Applet HTML Tags, Passing parameters to Applet, repaint() and update() method	**Total** 10.05.2021 To 17.05.2021 10.05.2021 To 17.05.2021	**10** 03 02	**Assignment for applet programs**	MCQ UNIT Test II

Rajarshi Shahu Mahavidyalaya, (Autonomous), Latur

Teaching Plan (Semester-II)

(March – 2021 to May-2021)

1. Details of Classes to be taught

Sr. No.	Class	Name of Asst. Prof.	Subject	Paper	Total Lecturers:
1	B. Sc. FY[II Sem]	Suchitra K. Kasbe	Computer Science	U_COS_242 Programming in C	45

2. Summary of Lesson Plan

Unit	Topics To be Covered	Date	No. of Lectures	Academic activities to be organized	No. of Test / Assignment with topic and date
	UNIT- I Basics of C Language and Arrays	**Total**	**10**		
Unit I	Control Statements, Looping Statements, Introduction To Array Declaration And Initialization Of Arrays, Accessing Array Elements, Memory Representation Of Array, Arrays And Its Types, String Handling Functions.	10.03.2021 To 23.03.2021	5	**Some Programs on control and looping statements**	
		24.03.2021 To 01.04.2021	5		

Unit II	**UNIT- II Functions, Structure and Union** Introduction, Types of functions, Defining functions, Arguments Function prototype, Calling function, Returning function results Call by value and call by reference, Recursion, Introduction to Structure Declaration of structure, Accessing Structure Elements, How structure elements are stored? , Array of Structure, Introduction to Union, Declaration of Union Accessing Union Elements, How union elements are stored.	**Total** 2.04.2021 To 12.04.2021 13.04.2021 To 21.04.2021 26.04.2021 To 5.05.2021	**15** 04 05 06	**Extra programs of functions**	**UNIT I Activity Based 22.03.2021 To 27.03.2021**

Unit III	**UNIT- III Storage Classes and Pointers** Automatic storage class, Register storage class, Static storage class External storage class, Introduction to Pointers, Pointer declaration, initialization Dereferencing pointers, Pointer arithmetic, Pointer to pointer, Arrays and pointers.	**Total** 10.05.2021 To 12.05.2021 17.05.2021 To 18.05.2021	**10** 04 03	**Assignment on storage classes**	
Unit IV	**UNIT- IV File Management In C** Defining and opening a file - closing file I/O operations on files Error handling during I/O operations Random access to files Command line arguments	**Total** 19.05.2021 To 24.05.2021 25.09.2020 To 26.05.2021	**10** 06 05	**--**	**UNIT Test II** **3.05.2021** **To** **11.05.2021**

Rajarshi Shahu Mahavidyalaya, (Autonomous), Latur

Teaching Plan (Semester-IV)

(March – 2021 to May-2021)

1. Details of Classes to be taught

Sr. No.	Class	Name of Asst. Prof.	Subject	Paper	Total Lecturers:
1	B. Voc. (CT)SY	Suchitra K. Kasbe	Computer Technology	U_PRJ_527 Programming in Java	60 (Credit 4)

2. Summary of Lesson Plan

Unit	Topics To be Covered	Date	No. of Lectures	Academic activities to be organized	No. of Test / Assignment with topic and date
Unit I	**Unit 1: Introduction to Java programming** History of Java, Features of Java, Java Development Kit (JDK), Keywords, Comments, Data Types in Java, Primitive Data Types; Variables in Java; The main() Method of java, Saving, Compiling and Executing Java Programs. Operators: Arithmetic Operators, Increment and Decrement Operators, Comparison Operators, Logical Operators, Operator Precedence. Control Flow Statements: if-else Statement, Switch	10.03.2021 To 17.03.2021 18.03.2021 To 24.03.2021	**15** 05	MCQ online Quiz on Unit I	

	Statement, for Loop, and while Loop, do…while loop, break Statement continue Statement. Arrays and Strings Arrays; Strings, String Operations, String Buffer.	25.03.2021 To 31.03.2021	04 06		
Unit II	**Unit 2 : Object Oriented Concepts** Class and Objects Class Fundamentals, Creating objects, Assigning object reference variables, Introducing Methods, Static methods, Constructors, Overloading constructors, this Keyword, Using Objects as Parameters, Argument passing, Returning objects, Method Overloading, Garbage Collection, The Finalize() Method Inheritance and Polymorphism: Inheritance Basics, Access Control, Multilevel Inheritance, Method Overriding, Abstract Classes, Polymorphism, Final Keyword	**Total** 1.04.2021 To 10.04.2021	**15** 07	MCQ online Quiz on Unit II	Activity Based Test on Unit I and Unit II 22 March to 27 March 2021
		15.04.2021 To 28.04.2021	08		

Unit III	**Unit 3: Package, Interface and Exception Handling** Packages Packages, Defining and using a Package Interface Interface, Defining an Interface, Uses of Interfaces, Interfaces versus Abstract Classes Exception Handling Definition of an Exception, Exception Classes, Common Exceptions, Exception Handling Techniques	**Total**	**06**		
		29.04.2021 To 6.05.2021	04	MCQ online Quiz on Unit III	
		7.05.2021 To 8.05.2021	02		
Unit IV	**Unit 4: Applets, Event Handling, Swing, JDBC**Applets What are Applets? The Applet Class, Life Cycle of an Applet Event Handling Components of an Event, Event Classes, Event Listener, EventHandling, Adapter Classes, Inner Classes Swing Concepts of Swing, Swing Packages and Classes, Working with Swing- An Example, Swing Components Java Data Base Connectivity	**Total**	**12**		Activity Based Test on Unit I and Unit II 3 May to 11 May 2021
		12.05.2021 To 15.05.2021	04	MCQ online Quiz on Unit IV	
		19.05.2021 To 22.05.2021	04		
		26.05.2021 To 31.05.2021	04		

Rajarshi Shahu Mahavidyalaya, (Autonomous), Latur

Teaching Plan (Semester-II)

(March – 2021 to May-2021)

1. Details of Classes to be taught

Sr. No.	Class	Name of Asst. Prof.	Subject	Paper	Total Lecturers:
1	M. Sc. (CS)FY	Suchitra K. Kasbe	Computer Science	U_COD_226 Compiler Design	60 (Credit 4)

2. Summary of Lesson Plan

Unit	Topics To be Covered	Date	No. of Lectures	Academic activities to be organized	No. of Test / Assignment with topic and date
Unit I	**UNIT I: Introduction to Compilers and Programming Languages** Compilers and translators, The structure of compiler, Compiler writing tools, Definition of P.L., High level Programming Languages., Lexical and syntactic structure of a language ,Data structures, Operators, Statements, Lexical Analysis: Introduction to Lexical analysis, Role of a Lexical analyzer, A simple approach to the design of lexical analyzer, Regular expressions	**Total** 10.04.2021 To 17.04.2021 19.04.2021 To 22.04.2021 23.04.2021 To 30.04.2021	**15** 05 04 06	Assignment on lexical analysis	

Unit II	**UNIT II: Syntax Analysis and Basic Parsing Techniques** Finite automata, minimizing number of states of a DFA, Implementation of a lexical analyzer Context free grammars, Introduction to	**Total** 1.05.2021 To 8.05.2021	**15** 07	MCQ Online Quiz on Unit II	Activity Based Test on unit I and Unit II 10 May 10 15 May
	parsers, Shift reduce parsing, Top down parsing, Operator Precedence parsing, Predictive parsers	10.05.2021 To 18.05.2021	08		

Unit III	**UNIT III: Syntax Directed Translation and symbol table** Introduction to Syntax directed Schemes, Implementation of Syntax directed translators, Intermediate code, Postfix notation and evaluation of postfix expressions, Parse trees and syntax trees, the contents of a symbol table, Data structures for a symbol table.	**Total** 19.05.2021 To 25.05.2021 26.05.2021 To 3.06.2021	**15** 07 08	MCQ Online Quiz on UNIT III	
Unit IV	**UNIT IV: Error detection and recovery, Introduction to Code Optimization** Introduction to Errors, Lexical phase errors, Syntactic phase errors, Semantic errors, Sources of optimization, Loop optimization	**Total** 4.06.2021 To 15.06.2021 16.06.2021 To 22.05.2021	**15** 07 08	MCQ Online Quiz on UNIT III	UNIT TEST II on unit III and Unit IV 3 June 2021 to 11 June 2021

Suchitra K. Kasbe
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