Rajarshi Shahu Mahavidyalaya, (Autonomous), Latur

Teaching Plan (Semester-III)

(June - 2018 to Oct-2018)

1. Details of Classes to be taught

Sr. No.	Class	Name of Asst. Prof.	Subject	Paper	Total Lecturers:
1	B. C. A. SY	Suchitra K. Kasbe	Computer Science and IT	U-00P-390 Object Oriented Programming Using C++	45

No.	Unit and Chapter to be covered	Date	No. of Lecture s	Academic activities to be organized	No. of Test / Assignment with topic and date
Unit	UNIT-I: Introduction to Object Oriented Programming 1. Getting Started:	25.06.2018 To 07.07.2018	06		
	Introduction, A brief history of C++, Advantages of OOP - Usage of OOP and C++ Variable, constant, Expression, Statements, Comments and keywords of C++ 2. Operator: Arithmetic, Relational, Logical, Assignment, Increment/Decrement, Conditional, Precedence of Operators. Data type, Type Conversion, library function. 3. Input / Output Statements:	08.07.2018 To 31.07.2018	07	Assignment Questionson Operators Advantages of OOP	

	T				
	Inputting using cin and				
	outputting using cout				
	statements. Preprocessor				
	directives. Basic program				
	construction.				
1	UNIT-II :Array , control and Looping Statement	01.08.2018 To	05	Program	UNIT TEST I ACTIVITY BASED
1	4. Decision Making and	16.08.2018		Assignme	TEST
II	Looping Statement: If Statement,			nt on Arrays	
	Ifelse statement, nesting of if				14.09.2018 to
	statement, Switch statement,				30.09.2018
	conditional operator statement.				
	While loop, Do loop, For loop,				
	nesting of loops, break and				
	continue statement, go to				
	statement.	18.08.2018			
	5. Arrays: Defining an array	To 31.08.2018			
	Array type, array elements				
	Accessing and averaging array				
	elements, initializing array.				
	Programming of C++ with array.				
	String handling, array of strings.				
	UNIT-III: Introduction to Class				
	and Functions				
Unit	6. Functions: What is a function?	01.09.2018 To			
III	Declaring and defining function.	15.09.2018	06		
	Local, global variables, execution			Program	
	of function. Passing argument to			Assignme nt on	
	function, Return values.			class and	
	Reference arguments.	17 00 2010		object PPT on	
	Overloading functions. Inline	17.09.2018 To	06	class and object	
	function and default parameter.	25.09.2018			
	<u>I</u>	<u> </u>			

	7. Object Oriented Programming: Objects & Classes. Constructor & Destructor. Operator overloading. Overloading unary operators. Overloading binary operators.			
Unit	UNIT IV: Inheritance and Polymorphism 8. Inheritance: Derived class and Base Class. Derived Class Constructors. Overriding member functions. Inheritance in the English distances class, class hierarchies. Public and Private Inheritance. Level of inheritance. 9. Polymorphism: Problems with	To 29.09.2018	PPT on Polymorphis m and Inheritance	UNIT TEST II MCQ TEST 07.10.2018 To 22.10.2018
	single inheritance. Multiple inheritances.			

Suchitra K. Kasbe

Name & Signature of Teacher

HoD

Dept. of Computer Science Rajarshi Shahu Mahavidyalaya, Later

Rajarshi Shahu Mahavidyalaya, Latur (Autonomous)

Rajarshi Shahu Mahavidyalaya, (Autonomous), Latur

Teaching Plan (Semester-III)

(June - 2018 to Oct-2018)

3. Details of Classes to be taught

Sr.	Class	Name of Asst. Prof.	Subject	Paper	Total
No.					Lecturers:
1	B. Sc.	Suchitra K. Kasbe	Computer	U-00P-382	45
	C.S. SY			Object Oriented	
				Programming Using C++	

1	Unit and Chapter to be covered	Date	No. of Lectures	Academic activities to be organized	No. of Test / Assignment with topic and date
Unit	UNIT- I: Introduction to Object Oriented Programming 1. Principles of Object-Oriented Programming (OOP) Evolution of C++ - Programming Paradigms - Key Concepts of OOP - Advantages of OOP - Usage of OOP and C++. Input and Output in C++- Streams- Stream classes Unformatted console I/O operations- Member functions of istream class-manipulators- manipulators with parameters 2. Introduction to C++ Tokens, Keywords, Identifiers, Variables, Operators, Expressions and Control Structures: If,If. Else, Switch – Repetitive Statements- for, while, dowhile - Pointers and arrays	27.06.2018 To 07.07.2018 To 20.07.2018	05	Assignments on basic concepts of OOP and I/O statements	

Unit UNIT II: Class, Functions and				
II Constructors 3. Structures and Unions:	23.08.2018 To 28.08.2018	05	Program Assignments	UNIT TEST I ACTIVITY BASED TEST 14.09.2018 to 30.09.2018
Array within a class.	30.08.2018 To 04.09.2018	06		
Pass by value, Pass by reference,	06.09.2018 To 21.09.2018	12		

Unit	UNIT III: Inheritance and Overloading Inheritance Extending Classes, Concept of inheritance,Base class, Derived class, Defining derived classes, Visibility modes: Private, public, protected; Single inheritance: Privately derived, Publicly derived;	23.09.2018 To 30.09.2018	07	PPT on Inheritance	
	Making a protected member inheritable, Access Control to private and protected members by memberfunctions of a derived class, Multilevel inheritance, Nesting of classes. 8. Function Overloading & Operator Overloading Binary & Unary	31.09.2018 To 07.10.2018	07		
	UNIT IV: Polymorphism and file operations Polymorphism Definition, early Binding, Polymorphism with pointers, Virtual Functions, late binding, pure virtual functions. Working with files Header file, redirection, Classes for File Stream	08.10.2018 To 15.10.2018	05	PPT on polymorphism	UNIT TEST II MCQ TEST 07.10.2018 To 22.10.2018
	Operations – Opening and Closing a File - End-of File Detection - file input and output. File Pointers - Updating a File - Error Handling during File Operations - Command-line Arguments, buffers & iostreams	To 03.11.2018			

Rajarshi Shahu Mahavidyalaya, (Autonomous), Latur

Teaching Plan (Semester-II)

(Nov - 2018 to March-2019)

5. Details of Classes to be taught

Sr.	Class	Name of Asst.	Subject	Paper	Total Lecturers:
No.		Prof.			
1	B. Sc.	Suchitra K. Kasbe	Computer	U-COS-242	45
	FY		Science	Programming in C	

1	Unit and Chapter to be covered	Date	No. of Lecture S	Academic activities to be organized	No. of Test / Assignment with topic and date
	UNIT- I Basics of C Language and Arrays Control Statements, Looping Statements, Introduction To Array Declaration And Initialization Of Arrays, Accessing Array Elements, Memory Representation Of Array, Arrays And Its Types, String		6	PPTs on control and looping statements, Arrays	
Unit	Handling Functions. UNIT- II Functions, Structure and Union Introduction, Types of functions, Defining functions, Arguments Function prototype, Calling function,	31.12.2018 To 08.01.2019	04	Program Assignment on Functions, Structure and Union	UNIT TEST I ACTIVITY BASED TEST
	Returning function results Call by value and call by reference, Recursion,Introduction to Structure Declaration of structure,	09.01.2019 To 21.01.2019	05		
	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.	22.01.2019 To 30.01.2019	06		

Unit	UNIT- III Storage Classes and Pointers Automatic storage class, Register storage class, Static storage class External storage class,	04.02.2019 To 12.02.2021	05	PPTs on storage classes and pointer	
	Introduction to Pointers, Pointer declaration, initialization Dereferencing pointers, Pointer arithmetic, Pointer to pointer, Arrays and pointers.	13.02.2019 To 27.02.2019	05		
Unit	UNIT- IV File Management In C Defining and opening a file - closing file I/O operations on files	05.03.2019 To 14.03.2019	06		UNIT TEST II
	Error handling during I/O operations Random access to files Command line arguments	15.03.2019 To 20.03.2019	04	Assignment on file handling	

Rajarshi Shahu Mahavidyalaya, (Autonomous), Latur <u>Teaching Plan (Semester-VI)</u> (Nov – 2018 to March-2019)

1. Details of Classes to be taught

Sr.	Class	Name of Asst.	Subject	Paper	Total Lecturers:
No.		Prof.			
1	B. Sc.	Suchitra K. Kasbe	Computer	U-COG-689	45
	C.S. TY		Science and	Computer Graphics	
			IT		

No.	Unit and Chapter to be covered	Date	No. of Lecture s	Academic activities to be organized	No. of Test / Assignment with topic and date
I	Unit- I 1. Introduction to Computer Graphics 1.1 Introduction 1.2 Advantages of computer graphics 1.3 Application of computer graphics 1.4 Coordinate system: Cartesian and Polar 1.5 Display devices: Cathode		09	PPTs on computer graphics devices and algorithms	
	Ray Tubes, Color CRT monitors 1.6 Direct View Storage Tube, Plotter, Light pen, Joystick 2. Raster Scan Graphics 2.1 Line segment and line drawing algorithm 2.2 Digital differential Algorithm 2.3 Bresenham's line algorithm	10.12.2018 To 20.12.2018	09		

aling, ACTIVITY BASED
lation BASED
otation

Unit	Unit – III	19.02.2019	08	PPTs on
III	5. Clipping & Windowing	To		Windowing
	5.1 Viewing transformation	06.03.2019		Transformat
	5.2 2- D clipping			ion and
	5.3 End point codes			clipping
	5.4 Midpoint subdivision			algorithm
	algorithm,			
	5.5 Polygon clipping algorithm			
	(Sutherland-Hodgman algorithm)			
	5.6 Windowing transformation			
	6 Dicplay File Compilations		08	
	6. Display File Compilations 6.1 Display file compiler	07.03.2019		
	6.2 Refresh concurrent with	To		
		16.03.2019		
	reconstruction 6.2 From storage allocation	1010011		
	6.3 Free storage allocation			
	6.4 Display file structure			

Rajarshi Shahu Mahavidyalaya, (Autonomous), Latur <u>Teaching Plan (Semester-IV)</u> (Nov – 2018 to March-2019)

1. Details of Classes to be taught

Sr. No.	Class	Name of Asst. Prof.	Subject	Paper	Total Lecturers:
1	B. Sc. C.S. SY	Suchitra K. Kasbe	Computer Science and IT	U-ADJ-482 Advance Java	45

	2. Summary of Lesson Plan							
Sr.	Unit and	Date	No. of	Academic	No. of Test /			
No	Chapter to		Lectures	activities to	Assignment			
	be covered			be	with topic			
				organized	and date			
	Unit I 1. Introduction to AWT:			PPTs on AWT				
Unit	Working with windows, Graphics	29.11.2018	09	classes				
I	Text	To						
_	1.1AWT Classes	09.12.2018						
	1.2WindowsFundamentals							
	1.3Working with Frame window							
	1.4Working with Graphics							
	1.5Working with Colors & Fonts							
	2. Swing Components	10.12.2018						
	2.1 Icons & Labels Button & Label,	To						
	TextField & Buttons	20.12.2018	09					
	2.2 CheckBoxes, Radio buttons							
	2.3 Combo Box & Lists							
	2.4 Scroll panes							
	2.5 Trees							
	2.6 Tables							
	2.7 Menu Bars & Menus							

	Unit-II 3. Networking 3.1 The java.net package 3.2 Connection oriented transmission – Stream Socket Class 3.3 Creating a Socket to a remote host on a port (creating TCP client and server) 3.4 Simple Socket Program Example 3.5 Programs on chatting 1-1.	21.12.2018 To 01.01.2019	10	Programming assignmentson JDBC	UNIT TEST I ACTIVITY BASED TEST
	4. JDBC 4.1 The design of JDBC 4.2 Basic JDBC Concept 4.3 Drivers 4.4 Making the Connection, Statement 4.5 Executing SQL commands 4.6 Executing queries 4.7Scrollable and updatable result sets 4.8Metadata, Transactions Activity Based Test	02.01.2019 To 12.01.2019 To 31.01.2019	10		
III	Unit-III 5. Servlet 5.1 Introduction 5.2 Life cycle of servlet 5.3 Handling HTTP Get Request 5.4 Handling HTTP Post Request	01.02.2019 To 11.02.2019	08	PPTs on servlet and JSP	
	6. Introduction to JSP 6.1 Getting Familiar with JSP Server 6.2 First JSP 6.3 Adding Dynamic contents via expressions 6.4 Scriptlets, Mixing Scriptlets and HTML 6.5 Directives, Declaration, Tags and Session	12.02.2019 To 21.02.2019	09		

	Unit-IV 7. Introduction to	22.02.2019	12	Assignment	UNIT TEST II
	JavaBeans & Hibernate	To		on java bean	
Unit	7.1 What is bean	07.03.2019			
	7.2 Advantages				
	7.3 The bean-writing process				
	7.4 Introduction to jar and				
	manifest files	08.03.2019	12		
		To			
	7.5 The java beans API	21.03.2019			
	7.6 Overview Of hibernate				
	7.7 Hibernate Architecture				

Suchitra K. Kasbe

Name & Signature of Teacher

Head

Dept. of Computer Science

Salarshi Shahu Mahavidyalaya, Latur

Rajarshi Shahu Mahavidyalaya, Latur (Autonomous)