

Rajarshi Shahu Mahavidyalaya (Autonomous), Latur
Faculty of Information Technology
Structured Work Plan for Teaching
Academic Year 2019-2020

Name of Teacher: GORDE BHAIKAVNATH SHATRUGHAN

Class: B.C.A. S.Y. **Semester:** III

Course Title: OOP's Using C++

Course Code: U-OOP-390

Unit	Topics To be Covered	Date	No. of Lectures
Unit I	Chapter 1: Getting Started: Introduction, A brief history of C++, Advantages of OOP - Usage of OOP and C++ Variable, constant, Expression, Statements, Comments and keywords of C++	24/06/2019 to 02/07/2019	6
	Chapter 2: Operator Arithmetic, Relational, Logical, Assignment, Increment/Decrement, Conditional, Precedence of Operators. Data type, Type Conversion, library function	04/07/2019 to 11/07/2019	4
	Chapter 3: Input / Output Statements: Inputting using cin and outputting using cout statements. Preprocessor directives. Basic program construction.	13/07/2019 to 20/07/2019	4
	Chapter 4: Decision Making and Looping Statement If Statement, If..else statement, nesting of if statement, Switch statement, conditional operator statement. While loop, Do loop, For loop, nesting of loops, break and continue statement, go to statement.	22/07/2019 to 30/07/2019	5

Unit II	Chapter 5. Arrays Defining an array Array type, array elements Accessing and averaging array elements, initializing array. Programming of C++ with array. String handling, array of strings.	01/08/2019 to 09/08/2019	7
Unit III	Chapter 6. Functions What is a function, Declaring and defining function. Local, global variables, execution of function. Passing argument to function, Return values. Reference arguments. Overloading functions. Inline function and default parameter	10/08/2019 to 26/08/2019	8
	Chapter 7. Object Oriented Programming Objects & Classes. Constructor & Destructor. Operator overloading. Overloading unary operators. Overloading binary operators.	27/08/2019 to 14/09/2019	9
Unit IV	Chapter 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, polymorphism	26/09/2019 to 24/10/2019	14

Teaching Plan Academic Year 2019-2020

Name of Teacher: GORDE BHAIKAVNATH SHATRUGHAN

Class: B.Sc.C.S. S.Y. **Semester:** III


Course Title: OOP's Using C++

Course Code: U-OOP-382

Unit	Topics To be Covered	Date	No. of Lectures
Unit I	Chapter 1: Principles of Object Oriented Programming 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	24/06/2019 to 04/07/2019	6
	Chapter 2: Introduction to C++ Tokens, Keywords, Identifiers, Variables, Operators, Expressions and Control Structures: If,If. Else, Switch – Repetitive Statements- for, while, do..while - Pointers and arrays	06/07/2019to 15/07/2019	5
Unit II	Chapter 3: Structures and Unions Declaration of structures, Accessing structure members, Structure Initialization, Arrays of structure, nested structures, structure with pointers, functions & structures, Unions, Structure/Union Versus Class in C++.	16/07/2019 to 25/07/2019	6
	Chapter4: Class Declaration, Data Members, Member Functions, Private and Public Members, Data Hiding and Encapsulation, Array within a class.	27/07/2019 to 06/08/2019	6

	Chapter 5 :Class Function Definition Member Function definition inside the class and outside the class, Friend Function, Inline Function, Static Members & Functions, Scope Resolution Operator, Private and Public Member Functions, Nesting of Member Functions. Creating Objects, Accessing class data members, Accessing member functions, Arrays of Objects, Objects as function arguments: Pass by value, Pass by reference, Pointers to Objects.	07/08/2019 to 20/08/2019	5
	Chapter 6: Constructors and Destructors Declaration and Definition, Default Constructors, Parameterized Constructors, Constructor Overloading, Copy Constructors. Destructors: Definition and use.	21/08/2019 to 28/08/2019	5
Unit III	Chapter 7. Inheritance Extending Classes, Concept of inheritance, Base class, Derived class, Defining derived classes, Visibility modes : Private, public, protected; Single inheritance : Privately derived, Publicly derived; Making a protected member inheritable, Access Control to private and protected members by member functions of a derived class, Multilevel inheritance, Nesting of classes	29/08/2019 to 05/09/2019	5
	Chapter 8: Overloading Function Overloading & Operator Overloading Binary & Unary	07/09/2019 to 14/09/2019	5
	Chapter 9: Polymorphism Definition, early Binding, Polymorphism with pointers, Virtual Functions, late binding, pure virtual functions.	26/09/2019 to 09/10/2019	6

Unit IV	Chapter 10: Working with files Header file, redirection, Classes for File Stream Operations - Opening and Closing a File - End-ofFile Detection - file input and output. File Pointers - Updating a File - Error Handling during File Operations - Command-line Arguments, buffers & iostreams	10/10/2019 to 24/10/2019	8
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Course Teacher
(B. S. Gorde)


Head
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PRINCIPAL
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Teaching Plan Academic Year 2019-2020

Name of Teacher: GORDE BHAIKAVNATH SHATRUGHAN

Class: B.C.A. S.Y. **Semester:** IV

Course Title: Linux Operating System

Course Code: U-LOS-489

Unit	Topics To be Covered	Date	No. of Lectures
Unit I	Chapter 1: Introduction to linux History of Unix , Directory structure of Linux History of Linux , Comparison of various operating systems , Advantages of Linux, Flavors of Linux, Installation notes, Linux Loader, Linux kernel, linuxfilesystem	16/12/2019 to 24/12/2019	6
	Chapter 2: File System and Devices System concept ext3, ext2, File systems: - mount,fsconf and other related commands	26/12/2019 to 31/12/2019	4
Unit II	Chapter 3: Working with permissions Assigning file permission , Directory Permission,Using text editors ,Working with vi&emacs , System services and run levels ,Controlling services at boot with administration tools	02/01/2020 to 14/01/2020	8
	Chapter 4. Linux commands General Purpose Utilities Command, File management commands , Filter related commands, Directory management commands , Checking directories and permissions , Compression commands, printer related commands.	16/01/2020 to 01/02/2020	12

Unit III	Chapter 5. SystemAdministration Performing system maintenance Communication commands :- write, wall, talk, mesg, motd, pre-login Message Managing software with RPM :- Installing, Uninstalling, Upgrading Managing users and managing Groups and managing passwords.	03/02/2020 to 25/03/2020	12
Unit IV	Chapter 6: Backup strategies Choosing Backup Strategies and Operations . Choosing Backup hardware and media Using backup software and commands	06/03/2020 to 17/03/2020	6
	Chapter 7. Network configuration for Linux Network configuration tools, Dynamic host configuration protocol, Network files system, Introduction to samba , Introduction to DNS & Apache web server	19/03/2020 to 31/03/2020	7

Teaching Plan Academic Year 2019-2020

Name of Teacher: GORDE BHAIKAVNATH SHATRUGHAN


Class: B.Sc.C.S. S.Y. **Semester:** IV

Course Title: Advance Java


Course Code: U-ADJ-482


Unit	Topics To be Covered	Date	No. of Lectures
Unit I	Chapter 1: Introduction to AWT AWT Classes ,Windows Fundamentals,Working with Frame window ,Working with Graphics,Working with Colors & Fonts	12/12/2019 to 24/12/2019	9
	Chapter 2: Swing Components Icons & Labels, Button & Label, TextField & Buttons, CheckBoxes, Radio buttons , Combo Box & Lists , Scroll panes Trees ,Tables , Menu Bars & Menus	26/12/2019 to 08/01/2020	10

Unit II	Chapter 3: Networking The java.net package, Connection oriented transmission – Stream Socket Class , Creating a Socket to a remote host on a port , Simple Socket Program Example , Programs on chatting 1-1 . Chapter 4: JDBC The design of JDBC, Basic JDBC Concept, Drivers, Making the Connection, Statement, Executing SQL commands , Executing queries, Scrollable and updatable result sets , Metadata, transactions	09/01/2020 to 20/01/2020	6
		21/01/2020 to 04/02/2020	10
Unit III	Chapter 5. Servlet Introduction , Life cycle of servlet Handling HTTP Get Request , Handling HTTP Post Request Chapter 6. Introduction to JSP Getting Familiar with JSP Server, First JSP , Adding Dynamic contents via expressions , Scriptlets, Mixing Scriptlets and HTML , Directives, Declaration, Tags and Session	05/02/2020 to 12/02/2020	5
		13/02/2020 to 26/02/2020	8
Unit IV	Chapter 7. Introduction to Java Beans & Hibernate What is bean , Advantages , The bean-writing process , Introduction to jar and manifest files, The java beans API Overview Of hibernate Hibernate Architecture	07/03/2020 to 18/03/2020	6
		19/03/2020 to 31/03/2020	4


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