

**Rajarshi Shahu Mahavidyalaya (Autonomous), Latur**  
**Faculty of Information Technology**

**Structured Work Plan for Teaching**

Academic Year (2020 - 2021)

( 06-Jul-2020 TO 15-Nov-2020 )

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

Sr. No.	Class	Name of Asst. Prof.	Course Title	Course Code	Practical Paper Code	Total Teaching Hours
1	BCA S.Y. III Sem	Prof. B. S. Gorde	OOPS Using C++	U-OOP-390 Total credit: 3	U-LAC-394 Total credit: 2	TH: 50 PR: 15

**2. Summary of Lesson Plan**

Name of Teacher: B.S.Gorde

Class : BCA S.Y. III Sem

Teaching Hours: 50

Sr. No.	Course Title and Course Code	Unit and Chapter to be covered	Date		No. of Lectures	Academic activities to be organized	No. of Test / Assignment with topic
			FROM	TO			
1	OOPS Using C++ U-OOP-390	UNIT-I Introduction to Object Oriented Programming Chp 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++	06-07-2020	31-07-2020	12	Class Seminars	Programming Assignment on constants and variables

2		<p>UNIT-I</p> <p>Chp 2. Operator: Arithmetic, Relational, Logical, Assignment, Increment/Decrement, Conditional, Precedence of Operators. Data type, Type Conversion, library function.</p>	03-08-2020	18-08-2020	10	Revision on Chp1	Programming Assignment on library functions
3		<p>UNIT-I</p> <p>Chp 3. Input / Output Statements: Inputting using cin and outputting using cout statements. Preprocessor directives. Basic program construction.</p>	19-08-2020	31-08-2020	10	Class Seminar	Oral exam
4		<p>UNIT-II</p> <p>Array , control and Looping Statement</p> <p>Chp 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.</p>	02-09-2020	25-09-2020	14	Program solving task	Assignment on looping statements
5		UNIT-II					

		Chp 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.	26-09-2020	12-10-2020	10	Revision	Program Assignment on Array
<b>6</b>		<p>UNIT-III</p> <p>Introduction to Class and Functions</p> <p>Chp 6. Functions: What is a function, Declaring and defining function. Local, global variables, execution of function. Passing argument to function, Return values. Reference arguments.</p> <p>Overloading functions. Inline function and default parameter.</p> <p>Ch.7. Object Oriented Programming: Objects &amp; Classes. Constructor &amp; Destructor. Operator overloading. Overloading unary operators. Overloading binary operators.</p>	13-10-2020	22-10-2020	10	Seminar on functions	Program Assignment on Functions
			<b>23-10-2020</b>	<b>31-10-2020</b>	7	Program solving task on class,objects and constructor.	Oral exam
<b>7</b>		UNIT-IV					

		<p>Inheritance and Polymorphism</p> <p>Chp 8. Inheritance: Derived class and Base Class. Derived Class Constructors. Overriding member functions.</p> <p>Inheritance in the English distances class, class hierarchies. Public and Private Inheritance. Level of inheritance, polymorphism</p>	02-11-2020	12-11-2020	08	Seminar on Inheritance	Oral Exam

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Sr. No.	Class	Name of Asst. Prof.	Course Title	Course Code	Practical Paper Code	Total Teaching Hours
1	B.Sc.(C.S.) S.Y. III Sem	<b>B.S.Gorde</b>	OOPS Using C++	U-OOP-382 Total credit: 3	U-LAC-386 Total Credit: 2	TH: 50 PR: 15

**2. Summary of Lesson Plan**

**Name of Teacher: B. S. Gorde**

**Class : B.Sc.(C.S.) S.Y. III Sem**

**Teaching Hours: 50**

Sr. No.	Course Title and Course Code	Unit and Chapter to be covered	Date		No. of Lectures	Academic activities to be organized	No. of Test / Assignment with topic
			FROM	TO			
1	OOPS Using C++ U-OOP-382	UNIT-I Introduction to Object Oriented Programming Chp 1. Principles of Object Oriented Programming (OOP) Evolution of C++ - Programming Paradigms - Key Concepts of OOP - Advantages of OOP -	06-07-2020	22-07-2020	12	Seminars	Assignment on manipulators in c++

		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					
<b>2</b>	OOPS Using C++	UNIT-I Chp 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	23-07-2020	05-08-2020	8	Revision on Chp1	Oral Exam
<b>3</b>	U-OOP-382	UNIT-II Chp 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++.	06-08-2020	17-08-2020	09	Class Seminar	Installation Task on <b>Turbo C</b>

4		<p>UNIT-II</p> <p>Chp 4. Class Declaration Data Members, Member Functions, Private and Public Members, Data Hiding and Encapsulation, Array within a class.</p>	18-08-2020	31-08-2020	09	<p>Problem Solving on data hiding and encapsulation</p>	<p>Assignment on class declaration</p>
5		<p>UNIT-II</p> <p>Chp 5. Class Function Definition Member Function definition inside the class and outside the class, Friend Function, Inline Function, Static Members &amp; 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.</p>	01-09-2020	15-09-2020	11	<p>seminars</p>	<p>Program Assignment on static members and functions</p>

6		<p>UNIT-II</p> <p>Chp 6. Constructors and Destructors</p> <p>Declaration and Definition, Default Constructors, Parameterized Constructors, Constructor Overloading, Copy Constructors. Destructors: Definition and use.</p>	16-09-2020	30-09-2020	11	Revision on chapter 5	<p>Program Assignment on constructors and destructors</p>
7		<p>UNIT-III</p> <p>Inheritance and Overloading</p> <p>Chp 7. Inheritance</p> <p>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,</p>	01-10-2020	15-10-2020	12	Mini task	<p>Program Assignment on inheritance</p>



		Multilevel inheritance, Nesting of classes.					
<b>8</b>		UNIT III 8. Function Overloading & Operator Overloading Binary & Unary	16-10- 2020	<b>24- 10- 2020</b>	6	seminars	Oral Exam
<b>9</b>		UNIT IV Polymorphism and file operations Ch.9. Polymorphism Definition, early Binding, Polymorphism with pointers, Virtual Functions, late binding, pure virtual functions.	26-10- 2020	<b>03- 11- 2020</b>	5	Class seminars	<b>test</b>
<b>10</b>		UNIT IV Ch.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	04-11- 2020	<b>12- 11- 2020</b>	7	Revision on ch. 10	Program Assignment on opening and closing files

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( 24-Feb-2021 TO 15-May-2021 )

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

Sr. No.	Class	Name of Asst. Prof.	Course Title	Course Code	Practical Paper Code	Total Teaching Hours
1	B.Sc.(C.S.) S.Y. IV Sem	<b>B. S. Gorde</b>	Advance Java	U-ADJ-482 Total Credit: 3	U-LAC-486 Total Credit: 2	TH: 60 PR: 13

**2. Summary of Lesson Plan**

**Name of Teacher: B. S. Gorde**

**Class : B.Sc.(C.S.) S.Y. IV Sem**

**Teaching Hours: 60**

Sr. No.	Course Title and Course Code	Unit and Chapter to be covered	Date		No. of Lectures	Academic activities to be organized	No. of Test / Assignment with topic
			FROM	TO			
1	Advance Java U-ADJ-482	UNIT-I 1. Introduction to AWT: Working with windows, Graphics Text 1.1AWT Classes 1.2Windows Fundamentals 1.3Working with Frame window 1.4Working with Graphics 1.5Working with Colors & Fonts	23-02-2021	03-03-2021	08	Revision on core java concepts	Programming assignment on awt components
2		UNIT-I					

		<p>2. Swing Components</p> <p>2.1 Icons &amp; Labels</p> <p>Button &amp; Label, TextField &amp; Buttons</p> <p>2.2 CheckBoxes, Radio buttons</p> <p>2.3 Combo Box &amp; Lists</p> <p>2.4 Scroll panes</p> <p>2.5 Trees</p> <p>2.6 Tables</p> <p>2.7 Menu Bars &amp; Menus</p>	04-03-2021	17-03-2021	09	Seminar on swing components	Assignment to design login form using swing components
<b>3</b>	Advance Java U-ADJ-482	<p>UNIT-II</p> <p>Chp.3. Networking</p> <p>3.1 The java.net package</p> <p>3.2 Connection oriented transmission – Stream Socket Class</p> <p>3.3 Creating a Socket to a remote host on a port (creating TCP client and server)</p> <p>3.4 Simple Socket Program Example</p> <p>3.5 Programs on chatting 1-1 .</p>	18-03-2021	24-03-2021	07	Creating tcp client and server	Assignment to design chatting application
<b>4</b>	Advance Java U-ADJ-482	<p>UNIT-II</p> <p>Chp.4. JDBC</p> <p>4.1 The design of JDBC</p> <p>4.2 Basic JDBC Concept</p> <p>4.3 Drivers</p> <p>4.4 Making the</p>	25-03-2021	05-04-2021	10	Revision on chapter 4	Oral exam

	<p>Connection, Statement</p> <p>4.5 Executing SQL commands</p> <p>4.6 Executing queries</p> <p>4.7 Scrollable and updatable result sets</p> <p>4.8 Metadata, transactions</p>					
<b>5</b>	<p>UNIT-III</p> <p>Chp 5. Servlet</p> <p>5.1 Introduction</p> <p>5.2 Life cycle of servlet</p> <p>5.3 Handling HTTP Get Request</p> <p>5.4 Handling HTTP Post Request</p>	06-04-2021	12-04-2021	06	Class Seminar	Oral Exam upto Chp4
<b>6</b>	<p>UNIT-III</p> <p>Chp 6. Introduction to JSP</p> <p>6.1 Getting Familiar with JSP Server</p> <p>6.2 First JSP</p> <p>6.3 Adding Dynamic contents via expressions</p> <p>6.4 Scriptlets, Mixing Scriptlets and HTML</p> <p>6.5 Directives, Declaration, Tags and Session</p>	15-04-2021	27-04-2021	08	Seminar on jsp tags	Assignment to develop simple jsp application
<b>7</b>	<p>UNIT-IV</p> <p>Chp.7. Introduction to Java Beans &amp; Hibernate</p>					

		7.1 What is bean 7.2 Advantages 7.3 The bean-writing process 7.4 Introduction to jar and manifest files 7.5 The java beans API 7.6 Overview Of hibernate 7.7 Hibernate Architecture	28-04-2021	15-05-2021	12	Group discussion on java bean and hibernate	Assignment to develop simple java bean application

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Sr. No.	Class	Name of Asst. Prof.	Course Title	Course Code	Practical Paper Code	Total Teaching Hours
1	BCA S.Y. IV Sem	Prof. B. S. Gorde	Programming with Java	U-PWJ-492 Total Credit: 3	U-LAC-496 Total credit: 2	TH: 55 PR: 10

**2. Summary of Lesson Plan**

Name of Teacher: B. S. Gorde

Class : BCA S.Y. IV Sem

Teaching Hours: 55

Sr. No.	Course Title and Course Code	Unit and Chapter to be covered	Date		No. of Lectures	Academic activities to be organized	No. of Test / Assignment with topic
			FROM	TO			
1	Programming with Java U-PWJ-492	UNIT-I Introduction of Java Programming Basics Chp 1. An Introduction to Java:  A Short History of Java, Features of Java, Comparison of Java and C++, Java virtual machine, Java program structure, Creating	24-02-2021	04-03-2021	07	Revision on OOPs concepts	Task on java path setting

		and Running Java Programs, Command Line Arguments					
2	Programming with Java U-PWJ-492	UNIT-I Chp.2. Programming Construct : Decision making statement, switch statement, looping statement	05-03-2021	12-03-2021	06	Class Seminar	Oral Exam
3	Programming with Java U-PWJ-492	UNIT-II Object Oriented concepts in java programming Chp 3. Classes and Objects : Introduction, Defining a class, Adding variables, Adding Methods, Creating Objects, Accessing Class Members, Constructors. Method Overloading, Static Members	13-03-2021	24-03-2021	08	seminars	Program Assignment on creating class and access data of class
4		UNIT-II Chp 4. Inheritance: Extending a class, Overriding Method, using super, Final variable and	25-03-2021	05-04-2021	07	Group Discussion	Assignment on inheritance

		Methods, this keyword					
5		UNIT-III Arrays, Packages and Interface Chp.5. Arrays, Strings: Introduction, One-dimensional and Two-dimensional Arrays, String Arrays, String Method.	06-04-2021	12-04-2021	05	Class Seminar	Oral Exam upto Chp4
6		UNIT-III Chp 6. Packages and Interface: Java API package, Using system packages, Creating Packages & Using a Package, Interface Introduction, creating and using interfaces	15-04-2021	24-04-2021	07	Seminar on package and interface	Programming assignment to develop package
7		UNIT-IV Multi Threading and applet Chp 7. Multithreaded Programming: Introduction, Life Cycle of a Thread, Creating Threads, Extending the	26-04-2021	05-05-2021	07	Program solving task	Program to demonstrate Multithreading



		Thread Class, Stopping and Blocking a Thread, Thread Priorities					
<b>8</b>		Chp 8. Applets: Life cycle of Applet, Creation and Execution of Java Applets, Applet tag, Parameter Passing to applet	06- 05- 2021	15- 05- 2021	08	Revision on chp.7	Assignment to develop applet program