

# Saraswati Mahila Mahavidyalaya, Palwal

## Lesson Plan :

Name of the Assistant/Associate Professor: Ms. Hemlata

Class and Section: BUA III<sup>rd</sup> year (Th+L)

Name of subject: Object Oriented Methodology (Java)

Subject Lesson Plan : 18 weeks (from January 2018 to April 2018)

(Note: Prepare as per list of holidays declared by Haryana govt.)

WEEK 1

ASSIGNMENT: OOP's Basic Concepts

WEEK 1, DAY 1, DATE :01/01/2018(MONDAY)

Revision of Previous OOP's Concepts i.e.  
class & object  
according to C++ (Th+L)

WEEK 1, DAY 2, DATE :02/01/2018(TUESDAY)

Abstraction & Encapsulation concept  
according to C++ (Th+L)

WEEK 1, DAY 3, DATE :03/01/2018(WEDNESDAY)

Inheritance concept  
according to C++ (Th+L)

WEEK 1, DAY 4, DATE :04/01/2018(THURSDAY)

Method Overriding concepts  
according to C++ (Th+L)

WEEK 1, DAY 5, DATE :05/01/2018(FRIDAY)

Holiday on account of Guru Govind Singh's Birthday

WEEK 1, DAY 6, DATE :06/01/2018(SATURDAY)

Polymorphism concept according  
to C++ (Th+L)

WEEK 2

ASSIGNMENT: Paradigms of Programming Language  
WEEK 2, DAY 1, DATE : 08/01/2018 (MONDAY)

Query on the previous Week Topic.  
(Th+L)

WEEK 2, DAY 2, DATE : 09/01/2018 (TUESDAY)

Discuss on Paradigms of Programming  
Language. (Th)

Program on concepts of class & object. (L)

WEEK 2, DAY 3, DATE : 10/01/2018 (WEDNESDAY)

Evolution of OO methodology. (Th)

Program on the concept of looping (L)  
(L)  
(Th+L)

WEEK 2, DAY 4, DATE : 11/01/2018 (THURSDAY)

Basic concepts of OO approach (day 1)

Program on the concept of Decision making  
Statements

WEEK 2, DAY 5, DATE : 12/01/2018 (FRIDAY)

Basic Concepts of OO approach (continued  
day 2)

Program on the concept of Nesting (L)

WEEK 2, DAY 6, DATE : 13/01/2018 (SATURDAY)

Class Test on Concepts of OO Approach  
(Th+L)



WEEK 3
ASSIGNMENT:
WEEK 3, DAY 1, DATE :15/01/2018(MONDAY)
Comparison of OOP & POP approaches. Program on the concept of Inheritance. (L) (Single)
WEEK 3, DAY 2, DATE :16/01/2018(TUESDAY)
Comparison of OOP & POP approaches. Program on multi-level Inheritance (L)
WEEK 3, DAY 3, DATE :17/01/2018(WEDNESDAY)
Benefits of OOP's. Program on multiple Inheritance (L)
WEEK 3, DAY 4, DATE :18/01/2018(THURSDAY)
Introduction of Common OO Language. Program on Hier. Inheritance (L)
WEEK 3, DAY 5, DATE :19/01/2018(FRIDAY)
Application of OOP's. Program on Hybrid Inheritance (L)
WEEK 3, DAY 6, DATE :20/01/2018(SATURDAY)
Class Discussion on this week Topics Lab Test on Inheritance.
WEEK 4
ASSIGNMENT:
WEEK 4, DAY 1, DATE :22/01/2018(MONDAY)
Inheritance

<b>Holiday on account of Basant Panchmi.</b>	
WEEK 4 ,DAY 2 ,DATE :23/01/2018(TUESDAY)	
Object oriented Methodology How To Open Java. (L)	
WEEK 4,DAY 3,DATE :24/01/2018(WEDNESDAY)	
<b>Holiday on account of Sir Chotu Ram Jayanti.</b>	
WEEK 4 ,DAY 4 ,DATE :25/01/2018(THURSDAY)	
continue --- How to start Java (L)	
WEEK 4,DAY 5,DATE :26/01/2018(FRIDAY)	
<b>Holiday on account of Republic Day.</b>	
WEEK 4 ,DAY 6 ,DATE :27/01/2018(SATURDAY)	
continue --- Connections in Java (L)	
WEEK 5	
ASSIGNMENT:	
WEEK 5,DAY 1,DATE :29/01/2018(MONDAY) UNIT - II	
Introduction To Java (TH) Basic Program of Java (L)	
WEEK 5,DAY 2,DATE :30/01/2018(TUESDAY)	
Basic features of Java (TH) Explanation of Basic Program (L)	
WEEK 5,DAY 3,DATE :31/01/2018(WEDNESDAY)	
<b>Holiday on account of Guru Ravi Dass Jayanti</b>	
WEEK 5,DAY 4,DATE :01/02/2018(THURSDAY)	
JVM Concepts	



WEEK 5, DAY 5, DATE :02/02/2018(FRIDAY)

Primitive Data types & Variable

How to declare Variable in Java.

WEEK 5, DAY 6, DATE :03/02/2018(SATURDAY)

Java operators

How to compile & Run Java Programs

WEEK 6

ASSIGNMENT:

WEEK 6, DAY 1, DATE :05/02/2018(MONDAY)

continue

Program to implement Java operators

WEEK 6, DAY 2, DATE :06/02/2018(TUESDAY)

Expressions

continue...

WEEK 6, DAY 3, DATE :07/02/2018(WEDNESDAY)

Statement & Array

Program to implement Expression in Java

WEEK 6, DAY 4, DATE :08/02/2018(THURSDAY)

class-Test on Java, JVM concept

Illustration for students.

WEEK 6, DAY 5, DATE :09/02/2018(FRIDAY)

Object Oriented concepts :- Class & Object.

Program on IF statement

WEEK 6, DAY 6, DATE : 10/02/2018 (SATURDAY)

**Holiday on account of Maharshi Dayanand Saraswati Jayanti.**

WEEK 7

ASSIGNMENT:

WEEK 7, DAY 1, DATE : 12/02/2018 (MONDAY)

Continue

Program on If-else statement

WEEK 7, DAY 2, DATE : 13/02/2018 (TUESDAY)

**Holiday on account of Maha Shivaratri.**

WEEK 7, DAY 3, DATE : 14/02/2018 (WEDNESDAY)

Introduction of Methods

Program on if-else-if statement.

WEEK 7, DAY 4, DATE : 15/02/2018 (THURSDAY)

Static Methods

Program on Nested if statement.

WEEK 7, DAY 5, DATE : 16/02/2018 (FRIDAY)

Constructor & Destructor

Illustration for students

WEEK 7, DAY 6, DATE : 17/02/2018 (SATURDAY)



Types of Constructors

Program on loop concepts

WEEK 8

ASSIGNMENT:

WEEK 8, DAY 1, DATE :19/02/2018(MONDAY)

This keyword

continue...

WEEK 8, DAY 2, DATE :20/02/2018(TUESDAY)

Using Objects as Parameters, Argument  
Passing, Returning Objects

continue...

WEEK 8, DAY 3, DATE :21/02/2018(WEDNESDAY)

Method Overloading

Illustration for students

WEEK 8, DAY 4, DATE :22/02/2018(THURSDAY)

Garbage collection & Finalize() Method

Program on the concept of class & object

WEEK 8, DAY 5, DATE :23/02/2018(FRIDAY)

Revision on Previous Topics

Illustration for students

WEEK 8, DAY 6, DATE :24/02/2018(SATURDAY)

Inheritance & Polymorphism

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WEEK 9
ASSIGNMENT:
WEEK 9, DAY 1, DATE :26/02/2018(MONDAY)
Continue - - -
WEEK 9, DAY 2, DATE :27/02/2018(TUESDAY)
continue - - -
WEEK 9, DAY 3, DATE :28/02/2018(WEDNESDAY)
<b>VACATION -II</b>
WEEK 9, DAY 4, DATE :01/03/2018(THURSDAY)
<b>VACATION -II</b>
WEEK 9, DAY 5, DATE :02/03/2018(FRIDAY)
<b>VACATION -II</b>
WEEK 9, DAY 6, DATE :03/03/2018(SATURDAY)
<b>VACATION -II</b>
WEEK 10
ASSIGNMENT:
WEEK 10, DAY 1, DATE :05/03/2018(MONDAY)
Packages :- Defining, classpath, package Naming Program on the concept of package



WEEK 10, DAY 2, DATE :06/03/2018(TUESDAY)

Accessibility of packages, Using Package Member

Illustration for students

WEEK 10, DAY 3, DATE :07/03/2018(WEDNESDAY)

Interfaces - implementing, Abstract classes

Program explanation on the concept of interfaces

WEEK 10, DAY 4, DATE :08/03/2018(THURSDAY)

Extends and implements together.

Program using Extends and implements

WEEK 10, DAY 5, DATE :09/03/2018(FRIDAY)

Class Test :- Constructor & Methods

Implementation using multiple combinations

WEEK 10, DAY 6, DATE :10/03/2018(SATURDAY)

Discussion on Interfaces & Packages.

Illustration for students

WEEK 11

ASSIGNMENT:

WEEK 11, DAY 1, DATE :12/03/2018(MONDAY)

Exception Handling : Exception & Handling

Test on Package and interfaces

WEEK 11, DAY 2, DATE :13/03/2018(TUESDAY)

Using Try-catch, catching Multiple Exception

Using finally clause

Program on the concept of simple Exception Hand

WEEK 11, DAY 3, DATE :14/03/2018(WEDNESDAY)

Type of Exception, Throwing Excep., Writing  
Exception Subclasses

code implementation

WEEK 11, DAY 4, DATE :15/03/2018(THURSDAY)

Class Discussion on Exception Handling

Illustration for students

WEEK 11, DAY 5, DATE :16/03/2018(FRIDAY)

→ Board Test on Exception Handling.

Program on Exception handling using multiple  
catches

WEEK 11, DAY 6, DATE :17/03/2018(SATURDAY)

Multithreading -

Implementation & Illustration for students.

WEEK 12

ASSIGNMENT:

WEEK 12, DAY 1, DATE :19/03/2018(MONDAY)

continue ...

Program/code explanation on multithreading

WEEK 12, DAY 2, DATE :20/03/2018(TUESDAY)

continue ...

Another program on the concept of  
multithreading



<b>WEEK 12, DAY 3, DATE :21/03/2018(WEDNESDAY)</b>
I/O in Java: Stream & Stream classes Illustration for students
<b>WEEK 12, DAY 4, DATE :22/03/2018(THURSDAY)</b>
Predefined streams, Reading from & writing to Lab Test on Multithreading
<b>WEEK 12, DAY 5, DATE :23/03/2018(FRIDAY)</b>
<b>Holiday on account of Shahidi diwas.</b>
<b>WEEK 12, DAY 6, DATE :24/03/2018(SATURDAY)</b>
Console, Read/write files, The transient & Volatile modifiers. Using Instance of Native methods Manual test on Exception Handling.
<b>WEEK 13</b>
<b>ASSIGNMENT:</b>
<b>WEEK 13, DAY 1, DATE :26/03/2018(MONDAY)</b>
Revision of I/O in Java. Code explanation on I/O.
<b>WEEK 13, DAY 2, DATE :27/03/2018(TUESDAY)</b>
String & Characters. Implementation of I/O in Java.
<b>WEEK 13, DAY 3, DATE :28/03/2018(WEDNESDAY)</b>

fundamental of character & string.

Illustration for students

WEEK 13, DAY 4, DATE :29/03/2018(THURSDAY)

**Holiday on account of Mahavir jayanti.**

WEEK 13, DAY 5, DATE :30/03/2018(FRIDAY)

The string class.

Code explanation of Overriding  
(Virtual keyword)

WEEK 13, DAY 6, DATE :31/03/2018(SATURDAY)

String operation's

Code explanation of virtual class &  
virtual method

WEEK 14

ASSIGNMENT:

WEEK 14, DAY 1, DATE :02/04/2018(MONDAY)

Discussion of string class.  
implementation of virtual class

WEEK 14, DAY 2, DATE :03/04/2018(TUESDAY)

Discussion of string operation  
implementation of virtual method

WEEK 14, DAY 3, DATE :04/04/2018(WEDNESDAY)



Test on String

Illustration for Students

WEEK 14, DAY 4, DATE :05/04/2018(THURSDAY)

Data conversion using Value of ( ) methods

Code for abstract class

WEEK 14, DAY 5, DATE :06/04/2018(FRIDAY)

continue . . .

implementation of abstract class.

WEEK 14, DAY 6, DATE :07/04/2018(SATURDAY)

String Buffer

Program for (abstract class) Students

WEEK 15

ASSIGNMENT:

WEEK 15, DAY 1, DATE :09/04/2018(MONDAY)

String Buffer classes

file work.

WEEK 15, DAY 2, DATE :10/04/2018(TUESDAY)

continue . . .

Practical file . . .

**WEEK 15, DAY 3, DATE :11/04/2018(WEDNESDAY)**

String Test (Buffer class)

Practical file

**WEEK 15, DAY 4, DATE :12/04/2018(THURSDAY)**

Class Test on Exception Handling

Practical file

**WEEK 15, DAY 5, DATE :13/04/2018(FRIDAY)**

Class query on String topics

Practical file

**WEEK 15, DAY 6, DATE :14/04/2018(SATURDAY)**

**Holiday on account of Vaisakhi & Dr B.R. Ambedkar's Jayanti.**

**WEEK 16**

**ASSIGNMENT:**

**WEEK 16, DAY 1, DATE :16/04/2018(MONDAY)**

String Buffer Methods.

Practical file

**WEEK 16, DAY 2, DATE :17/04/2018(TUESDAY)**

Revision . . .

**WEEK 16, DAY 3, DATE :18/04/2018(WEDNESDAY)**



**Holiday on account of Maharshi Pasuram Jayanti**

**WEEK 16, DAY 4, DATE :19/04/2018(THURSDAY)**

Revision

**WEEK 16, DAY 5, DATE :20/04/2018(FRIDAY)**

Revision

**WEEK 16, DAY 6, DATE :21/04/2018(SATURDAY)**

Revision

**WEEK 17**

**ASSIGNMENT:**

**WEEK 17, DAY 1, DATE :23/04/2018(MONDAY)**

Revision

**WEEK 17, DAY 2, DATE :24/04/2018(TUESDAY)**

Revision

**WEEK 17, DAY 3, DATE :25/04/2018(WEDNESDAY)**

Revision

WEEK 17, DAY 4, DATE :26/04/2018(THURSDAY)

Revision

WEEK 17, DAY 5, DATE :27/04/2018(FRIDAY)

Revision

WEEK 17, DAY 6, DATE :28/04/2018(SATURDAY)

Revision

WEEK 18

ASSIGNMENT:

WEEK 18, DAY 1, DATE :30/04/2018(MONDAY)

Revision

Penulatan

08/12/17