

Dicipline:	CSE	Semester:	3rd	Name of the Teaching Faculty: Amitav Parida	
Subject:	Object oriented methodology.	No of Days/Week Class Allotted:	4	Semester From date: 15.9.22 To date: 21.1.23	No. of Weeks: 15
WEEK	Class Day	Theory Topics			
1	1st	Introduction to programming language.			
	2nd	Types of programming languages.			
	3rd	Object oriented programming.			
	4th	OOPS concepts & Terminology.			
	5th				
2	1st	Benefits & Application of OOPS.			
	2nd	What is Java?			
	3rd	Execution model of Java.			
	4th	Introduction with JVM.			
	5th				
3	1st	A first Java program.			
	2nd	idea about variables & data types. & declarations.			
	3rd	Concept of literals & types			
	4th	Arrays & types of data types.			
	5th				

WEEK	Class Day	Theory Topics
4	1st	Casting and type casting and widening & Narrowing conversion.
	2nd	operators & Expressions.
	3rd	Control flow statements.
	4th	Concept & syntax of class & Defining a class.
	5th	
5	1st	Concept & syntax of methods Defining methods.
	2nd	creating an object, Accessing class members.
	3rd	Instance data & class data.
	4th	Constructors.
	5th	
6	1st	Access Specifiers.
	2nd	Access Modifiers.
	3rd	Access Control
	4th	String builder & string buffer using java objects.
	5th	Methods using java objects.

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WEEK	Class Day	Theory Topics		
7	1st	Messages using java objects.		
	2nd	Parameter passing.		
	3rd	Comparing the java objects.		
	4th	Identifying the java objects.		
	5th			
8	1st	Inheritance in java.		
	2nd	Use of inheritance.		
	3rd	Types of inheritance		
	4th	Single inheritance		
	5th			
9	1st	Multilevel inheritance		
	2nd	Hierarchical inheritance		
	3rd	Hybrid inheritance		
	4th	Overall discussion on inheritance		
	5th			

WEEK	Class Day	Theory Topics
10	1st	Basic concept of polymorphism.
	2nd	Types of polymorphism.
	3rd	Method overloading.
	4th	Runtime polymorphism & examples
	5th	
11	1st	Method overriding.
	2nd	Compile time polymorphism.
	3rd	Advantages of method overriding.
	4th	Constructor overloading.
	5th	
12	1st	Introduction to packages.
	2nd	Built-in package.
	3rd	User defined packages.
	4th	Creating packages & access package.
	5th	

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WEEK	Class Day	Theory Topics		
13	1st	Adding a class to package, Hidding classes & static import.		
	2nd	What is stream, Reading & Writing to files		
	3rd	Input & output streams, Manipulating input data, opening & closing streams.		
	4th	Predefined streams, File handling classes & methods.		
	5th			
14	1st	Exceptions overview & keywords.		
	2nd	Catching Exceptions		
	3rd	Using finally statement		
	4th	Exception methods		
	5th			
15	1st	Declaring Exceptions		
	2nd	Defining & throwing exceptions		
	3rd	Errors & Runtime Exceptions.		
	4th	Question Answer Discussion.		
	5th			


