

# ARYAN SCHOOL OF ENGINEERING & TECHNOLOGY, BHUBANESWAR

Discipline:	OSE	Semester: 3rd	Name of the Teaching Faculty: Suraj K. Bhusal	
Subject:	Object oriented Methodology	No. of Days/Week	Semester From date: _____ To _____	No. of Weeks.
		Class Allotted: 4	date _____	
WEEK	Class Day	Theory Topics		
	1st	Introduction to programming language		
	2nd	Types of programming languages		
	3rd	object oriented programming		
	4th	OOPS concepts & terminology		
	5th			
	1st	Benefits & Application of OOPS		
	2nd	What is Java?		
	3rd	Execution model of Java		
	4th	Introduction with JVM		
	5th			
	1st	A first Java program,		
	2nd	idea about variables & data types & declarations		
	3rd	Concept of literals & types		
	4th	Arrays & types of datatypes		
	5th			



1st	Casting & type casting and widening & narrowing conversion
2nd	Operators & Expressions
3rd	Control Flow statements
4th	Concept & syntax of class & Defining a class
5th	

1st	Concept & syntax of methods Defining methods
2nd	Creating an object, Accessing class members
3rd	Instance data & class data
4th	Constructors
5th	

1st	Access specifiers
2nd	Access modifiers
3rd	Access control
4th	String builder & string buffer using Java objects
5th	Methods using Java objects



		Semester:	Name of the Teaching Faculty	
		No of Days/Week Class Allotted: _____	Semester From date: _____ To date _____	No. of Weeks:
Class Day	Theory Topics			
1st	Messages using Java objects			
2nd	Parameter passing			
3rd	Comparing the Java objects			
4th	Identifying the Java objects			
5th				
1st	Inheritance in Java			
2nd	Use of inheritance			
3rd	Types of inheritance			
4th	Single inheritance			
5th				
1st	Multilevel inheritance			
2nd	Hierarchical inheritance			
3rd	Hybrid inheritance			
4th	Overall discussion of inheritance			
5th				



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



		Semester:	Name of the Teaching Faculty	
		No of Days/Week Class Allotted: _____	Semester From date: _____ To date _____	No. of Weeks:
Class Day	Theory Topics			
1st	using & adding a class to package then hiding classes, static import			
2nd	What is a stream?			
3rd	Reading & writing to files			
4th	input & output stream			
5th	n			
1st	Manipulating input data			
2nd	opening & closing streams & predefined streams			
3rd	File handling classes & methods			
4th	Exceptions overview, exception keywords			
5th				
1st	Catching exceptions, exception methods			
2nd	Declaring exceptions			
3rd	Defining and throwing exception			
4th	Errors & Runtime exception			
5th				



Semester:	Name of the Teaching Faculty		
No of Days/Week Class Allotted: _____	Semester From date: _____ To date _____		No. of Weeks:
Class Day	Theory Topics		
1st	using & adding a class to package then hiding classes, static import		
2nd	What is a stream?		
3rd	Reading & writing to files		
4th	input & output stream		
5th	n		
1st	Manipulating input data		
2nd	opening & closing streams, predefined streams		
3rd	File handling classes & methods		
4th	Exceptions overview, exception keywords		
5th			
1st	Catching exceptions, exception methods		
2nd	Declaring exceptions		
3rd	Defining and throwing exception		



Class Day	Theory Topics
1st	Basic concept of polymorphism
2nd	Types of polymorphism
3rd	Method overloading
4th	Run time polymorphism & examples
5th	
1st	Method overriding
2nd	Compile time polymorphism
3rd	Advantages of method overriding
4th	Constructors overloading
5th	
1st	Introduction to packages
2nd	Built-in package
3rd	user defined packages
4th	creating packages & access package
5th	

		Semester:	Name of the Teaching Faculty	
		No of Days/Week Class Allotted: _____	Semester From date: _____ To date _____	No.of Weeks:
Class Day	Theory Topics			
1st	Messages using Java objects			
2nd	Parameter passing			
3rd	Comparing the Java objects			
4th	Identifying the Java objects			
5th				
1st	Inheritance in Java			
2nd	Use of inheritance			
3rd	Types of inheritance			
4th	Single inheritance			
5th				
1st	Multilevel inheritance			
2nd	Hierarchical inheritance			
3rd	Hybrid inheritance			
4th	Overall discussion of inheritance			
5th				



1st	casting & type casting and widening & narrowing conversion
2nd	Operators & Expressions
3rd	Control Flow statements
4th	Concept & syntax of class & Defining a class
5th	

1st	Concept & syntax of methods Defining methods
2nd	Creating an object, Accessing class members
3rd	Instance data & class data
4th	Constructors
5th	

1st	Access specifiers
2nd	Access modifiers
3rd	Access control
4th	String builder & string buffer using Java objects
5th	Methods using Java objects



# ARYAN SCHOOL OF ENGINEERING & TECHNOLOGY, BHUBANESWAR

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