

NM Institute Of Engineering and Technology, Bhubaneswar

DEPARTMENT:CSE

LESSON PLAN: Academic Year 2022-23 (Even Semester)

COURSE: DIPLOMA

SEMESTER: 3rd

Subject/Code: OBJECT ORIENTED METHODOLOGY

Faculty Name: Mr. PRAVAT ROUSTRAY

Sl. No.	Name of the Topic to Cover	Text Book	Teaching Method	Course Progress	Remark
1	Programming Languages	T1	P	100%	
2	Object Oriented Programming	T2	G	100%	
3	OOPS concepts and terminology	T2	P	100%	
4	Benefit of OOPS , Application of OOPS	T3	G	99%	
5	What is Java ?, Execution Model of Java	T1	G	100%	
6	The Java Virtual Machine	R1	G	100%	
7	A First Java Program	T2	G	100%	
8	Variables and Data types	R1	G	100%	
9	Primitive Datatypes & Declarations	T1	G	99%	
10	Numeric and Character Literals, String Literals	T2	P	98%	
11	Arrays, Non-Primitive Datatypes	R1	G	100%	
12	Arrays, Non-Primitive Datatypes	T1	P	100%	
13	Casting and Type Casting	T2	G	100%	
14	Widening and Narrowing Conversions	T3	G	97%	
15	Operators and Expressions	T1	G	99%	
16	Control Flow Statements	T2	G	100%	
17	Concept and Syntax of class , Defining a Class	T2	P	100%	
18	Concept and Syntax of Methods, Defining Methods	T1	G	100%	
19	Creating an Object	R1	G	100%	
20	Accessing Class Members	R2	G	99%	
21	Instance Data and Class Data	R1	G	100%	
22	Constructors	T3	P	100%	
23	Access specifiers, Access Modifiers	T2	G	100%	
24	Access Control	T1	G	97%	
25	String Builder and String Buffer	T3	G	100%	
26	Methods and Messages, Parameter Passing	T2	G	100%	
27	Comparing and Identifying Objects	T2	P	97%	
28	Inheritance in Java, Use of Inheritance	T1	P	100%	
29	Types of Inheritance	T2	G	100%	
30	Single Inheritance	T1	G	100%	
31	Multi-level Inheritance	T2	G	100%	
32	Hierarchical Inheritance	T2	G	99%	
33	Hybrid Inheritance	T3	G	100%	

34	Types of Polymorphism	R1	P	100%
35	Method Overloading	R1	P	100%
36	Method Overriding	T2	G	100%
37	Run time Polymorphism	T3	G	99%
38	Java API Packages	T3	G	98%
39	Using System Packages	T2	P	100%
40	Naming Convention	R1	P	100%
41	Creating Packages	T3	G	99%
42	Accessing a Package	T2	G	100%
43	Using a Package	R1	G	100%
44	Adding a Class to Package	T2	G	100%
45	Hiding Classes	T3	P	100%
46	Static Import	T3	P	99%
47	What is a stream ?	T2	G	100%
48	Reading and writing to files	R1	P	100%
49	Input and Output Stream	T3	P	100%
50	Manipulating Input data	T3	G	100%
51	Opening and Closing Streams	T2	P	98%
52	Predefined streams	R1	P	99%
53	File handling Classes and Methods	T3	G	100%
54	Exceptions Overview	T3	P	99%
55	Exception Keywords	T2	P	99%
56	Catching Exceptions	R1	G	100%
57	Using Finally Statement	T3	P	100%
58	Exception Methods, Declaring Exceptions	T3	P	99
59	Defining and throwing exceptions	T2	G	97
60	Errors and Runtime Exceptions	R1	G	100%

Method of Teaching
G: Green Board Teaching
P: Power Point Teaching

Faculty Signature *Harvart Rindorng*

At the end of this course, students will be able to:

Understand the concepts of OOPs, their advantages and applications

Comprehend the features of Java

Know to create classes, objects, methods

Know the concepts and advantages of overloading methods and type conversions

Appreciate the concepts of inheritance and the various types of inheritance.

Understand the use of Interfaces and system packages

TEXT BOOKS:

Behrouz A. Forouzan, "Data Communications and Networking", McGraw Hill Publication

Andrew S Tanenbaum, "Computer Networks", Pearson Education

L. L. Peterson and B. S. Davie, "Computer Networks", Elsevier

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