

KIIT POLYTECHNIC, BHUBANESWAR

LESSON PLAN

Session	::	Winter– 2022
Course Type	::	Theory
Semester/Branch	::	3 rd Semester, Comp.Sc Engineering
Subject (with code)	::	Object Oriented Methodology(Th-4)
Contact hours/week	::	4 hours
Name of Faculty	::	Mr Sunil Kumar Sahoo

SL. NO.	CLASS ID	COURSE CONTENT	MODE OF DELIVERY	EXHIBIT/ REFERENCE
1	1	<ul style="list-style-type: none">• UNIT-I: Object Oriented Programming• OOPS concepts and terminology	Lecture (Explanation)	Programming With Java By E. Balagurusami
2	2	<ul style="list-style-type: none">• Benefit of OOPS• Application of OOPS	Lecture (Elaboration)	Programming With Java By E. Balagurusami
3	3	<ul style="list-style-type: none">• Discussion of Questions.		
4	4	<ul style="list-style-type: none">• UNIT-II: INTRODUCTION TO JAVA• Execution Model of Java• The Java Virtual Machine• A First Java Program	Lecture (Elaboration)	Programming With Java By E. Balagurusami
5	5	<ul style="list-style-type: none">• Variables, constants and Data types	Lecture (Explanation)	Study Material
6	6	<ul style="list-style-type: none">• Casting and Type Casting• Widening and Narrowing Conversion	Lecture (Explanation)	Study Material
7	7	<ul style="list-style-type: none">• Operators and Expressions	Lecture	Study Material

			(Explanation)	
8	8	<ul style="list-style-type: none"> Arithmetic and Relational operators with example 	Lecture (Explanation)	Study Material
9	9	<ul style="list-style-type: none"> Logical , increment and decrement operators 	Lecture (Explanation)	Study Material
10	10	<ul style="list-style-type: none"> Conditional, Assignment and Bitwise operators 	Lecture (Explanation)	Study Material
11	11	<ul style="list-style-type: none"> Control Flow Statements(if, if-else, switch) 	Lecture (Explanation)	Study Material
12	12	<ul style="list-style-type: none"> Loop(for,while,do-while) 	Lecture (Explanation)	Study Material
13	13	<ul style="list-style-type: none"> Program using loops 	Lecture (Explanation)	Study Material
14	14	<ul style="list-style-type: none"> Arrays, Non-Primitive Data types, String 	Lecture (Explanation)	Study Material
15	15	Assignment Evaluation	Lecture (Explanation)	Study Material
16	16	<ul style="list-style-type: none"> UNIT-III: Objects And Classes Concept and Syntax of class 	Lecture (Explanation)	The Complete Reference By Patric Naughton Herbert Schild
17	17	<ul style="list-style-type: none"> Defining a Class Defining Method & Access Control 	Lecture (Elaboration)	The Complete Reference By Patric Naughton Herbert Schild
18	18	<ul style="list-style-type: none"> Creating an Object Accessing Class Members Instance Data and Class Data 	Lecture (Explanation)	The Complete Reference By Patric Naughton Herbert Schild
19	19	<ul style="list-style-type: none"> Constructors Types of constructor 	Flipped class	The Complete Reference By Patric Naughton Herbert Schild
20	20	<ul style="list-style-type: none"> Access specifiers Types of access specifier 	Lecture (Explanation)	The Complete Reference By Patric Naughton Herbert Schild
21	21	Quiz Test		
22	22	<ul style="list-style-type: none"> UNIT-IV: String Builder and String Buffer 	Lecture (Explanation)	Programming With Java By

				E. Balagurusami
23	23	<ul style="list-style-type: none"> Methods and Messages 	Lecture (Explanation))	Programming With Java By E. Balagurusami
24	24	<ul style="list-style-type: none"> Parameter Passing Comparing and Identifying Objects 	Lecture (Explanation)	Programming With Java By E. Balagurusami
25	25	Class Test		
26	26	<ul style="list-style-type: none"> UNIT-V: Inheritance in Java Types of inheritance 	Video Content	NPTEL Reference Lecture 13: Inheritance - YouTube
27	27	<ul style="list-style-type: none"> Single Inheritance(Example) Multi-level Inheritance(Example) 	Video Content	NPTEL Reference Lecture 13: Inheritance - YouTube
28	28	<ul style="list-style-type: none"> Hierarchical Inheritance Hybrid Inheritance 	Lecture (Explanation)	Study Material
29	29	Assignment Evaluation		
30	30	<ul style="list-style-type: none"> UNIT-VI: Polymorphism Types of Polymorphism 	Lecture (Explanation)	Programming With Java By E. Balagurusami
31	31	<ul style="list-style-type: none"> Method Overloading Method Overriding 	Lecture (Explanation)	Study Material
32	32	<ul style="list-style-type: none"> Run time Polymorphism 	Lecture (Explanation)	Study Material
33	33	<ul style="list-style-type: none"> UNIT-VII: Packages: putting classes together Introduction to Java API Packages 	Video Content	NPTEL Reference Lecture 17: Packages-I - YouTube
34	34	<ul style="list-style-type: none"> Using System Packages Using a Package 	Lecture (Explanation)	Programming With Java By E. Balagurusami
35	35	<ul style="list-style-type: none"> Static Import Naming Convention 	Lecture (Explanation)	Study Material
36	36	<ul style="list-style-type: none"> Creating Packages 	Demonstration	Study Material

		<ul style="list-style-type: none"> Accessing a Package 		
37	37	<ul style="list-style-type: none"> Adding a Class to Package Hiding Classes 	Demonstration	Programming With Java By E. Balagurusami
38	38	<ul style="list-style-type: none"> UNIT-VIII: Java files and i/o What is a stream? Reading and writing to files(only txt files) Input and Output Stream 	Demonstration	Programming With Java By E. Balagurusami
39	39	<ul style="list-style-type: none"> Manipulating Input data Opening and Closing Streams Predefined streams File handling Classes and Methods 	Demonstration	Programming With Java By E. Balagurusami
40	40	<ul style="list-style-type: none"> UNIT-IX: Exceptions Overview Types of exception 	Demonstration	Online Resource Javatpoint
41	41	<ul style="list-style-type: none"> Exception Keywords Exceptions(program) Catching Exceptions Using Finally Statement 	Demonstration	Online Resource Javatpoint
42	42	<ul style="list-style-type: none"> Exception Methods Defining and throwing exceptions 	Demonstration	Study Material
43	43	<ul style="list-style-type: none"> Errors and Runtime Exceptions Errors and Runtime Exceptions program Handling of exception 	Demonstration	Study Material
44	44	<ul style="list-style-type: none"> Try, throw and catch program Using finally statement 	Demonstration	Study Material
45	45	<ul style="list-style-type: none"> Throwing our own exceptions 	Demonstration	Study Material
46	46	Quiz Test		
47	47	Assignment Evaluation		
48	48	<ul style="list-style-type: none"> Revision test after syllabus coverage 		
49	49	<ul style="list-style-type: none"> Discussing previous year question paper after finishing the syllabus 		
50	50	Class Test		

Sunil Kumar Sahoo

Signature of the Faculty