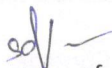


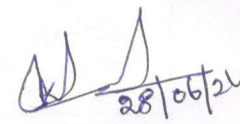
## GOVT. POLYTECHNIC, NUAPADA

### LESSON PLAN

<b>Discipline:</b> CSE	<b>Semester:</b> 3rd	<b>Name of the Teaching Faculty:</b> K. K. Chapeyar, Sr. Lecturer(CSE)
<b>Subject:</b> Object Oriented Methodology	<b>No. of Class class allotted per week:</b> 4	<b>Semester from:</b> 01/07/2024 <b>No. of weeks:</b> 15 <b>Session:</b> 2024-25
<b>WEEK</b>	<b>DAY</b>	<b>THEORY TOPICS</b>
1st	1st	Programming Languages.
	2nd	Object Oriented Programming Paradigm.
	3rd	OPS concepts and terminology.
	4th	Benefit and application of OOPS.
2nd	1st	Introduction to Java.
	2nd	Execution Model of Java.
	3rd	The Java Virtual Machine.
	4th	A First Java Program.
3rd	1st	Variables and Data types.
	2nd	Primitive Datatypes & Declarations.
	3rd	Numeric and Character Literals, String Literals.
	4th	Arrays, Non-Primitive Datatypes.
4th	1st	Casting and Type Casting, Widening and Narrowing Conversions.
	2nd	Operators and Expressions.
	3rd	Control Flow Statements.
	4th	Control Flow Statements.
5th	1st	Concept and Syntax of class.
	2nd	Defining a Class.
	3rd	Concept and Syntax of Methods.
	4th	Defining Methods.
6th	1st	Creating an Object.
	2nd	Accessing Class Members.
	3rd	Instance Data and Class Data.
	4th	Constructors.
7th	1st	Access specifiers, Access Modifiers, Access Control.
	2nd	String Builder and String Buffer
	3rd	Methods and Messages
	4th	Parameter Passing
8th	1st	Comparing and Identifying Objects
	2nd	Inheritance in Java.
	3rd	Use of Inheritance, Types of Inheritance.
	4th	Single Inheritance.
9th	1st	Multi-level Inheritance.
	2nd	Hierarchical Inheritance .
	3rd	Hybrid Inheritance.
	4th	Introduction to Polymorphism
10th	1st	Method Overloading
	2nd	Run time Polymorphism
	3rd	Method Overriding
	4th	Introduction to packages, Java API Packages

11th	1st	Using System Packages
	2nd	Naming Convention
	3rd	Creating Packages
	4th	Accessing a Package
12th	1st	Using a Package
	2nd	Adding a Class to Package
	3rd	Hiding Classes
	4th	Static Import
13th	1st	What is a stream, Reading and writing to files(only txt files)
	2nd	Innput and Output Stream
	3rd	Manipulating Input data
	4th	Opening and Closing Streams
14th	1st	Predefined streams
	2nd	Exceptions Overview, Exception Keywords
	3rd	Catching Exceptions
	4th	Using Finally Statement
15th	1st	Exception Methods
	2nd	Declaring Exceptions
	3rd	Defining and throwing exceptions
	4th	Errors and Runtime Exceptions

  
 Signature of  
 Faculty

  
 HOD  
 Sr. Lecturer(CSE)