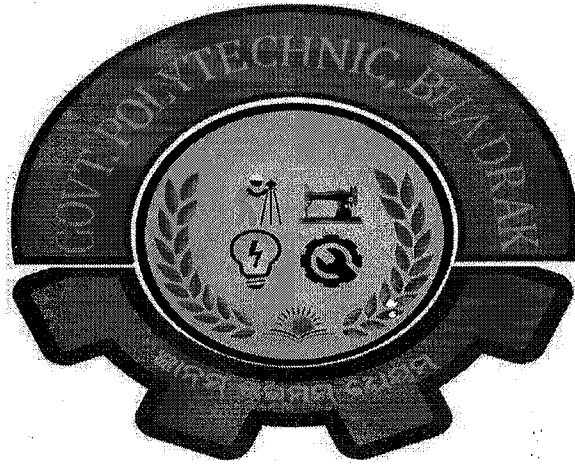


LESSON PLAN

SUB: OBJECT ORIENTED METHODOLOGY
BRANCH:- COMPUTER SCIENCE & ENGINEERING
SEMESTER:3RD

NAME OF FACULTY: PRAFULLA KUMAR MUNDA(LECT.IN CSE)



**GOVERNMENT POLYTECHNIC,
BHADRAK**

SESSION - 2024-25

HOD, CSE
[Signature]

Academic Co-ordinator
[Signature]

Principal
Govt. Polytechnic, Bhadrak
[Signature]
Principal
Govt. Polytechnic
Bhadrak

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|-------------------------------------------------------|----------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| Discipline: Computer Science & Engineering | Semester:3rd , Winter/2024 | Name of the Faculty: Prafulla Kumar Munda,Lecturer Email ID: prafulla.guia@gmail.com |
| Subject: Object Oriented Methodology | No.of class/week:04 | StartDate:01/07/2024 EndDate:08/11/2024 |

| Week | Class Day | Theory/Practical Topics |
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| 1st | 1st | <ul style="list-style-type: none"> • UNIT-I:ObjectOrientedProgramming • OOPS concepts and terminology |
| | 2nd | <ul style="list-style-type: none"> • Benefit of OOPS • Application of OOPS |
| | 3rd | <ul style="list-style-type: none"> • Discussion of Questions. |
| | 4th | <ul style="list-style-type: none"> • UNIT-II:INTRODUCTIONTO JAVA • Execution Model of Java • The Java Virtual Machine • A First Java Program |
| 2nd | 1st | <ul style="list-style-type: none"> • Variables, constants and Data types |
| | 2nd | <ul style="list-style-type: none"> • Casting and Type Casting • Widening and Narrowing Conversions |
| | 3rd | <ul style="list-style-type: none"> • Operators and Expressions |
| | 4th | <ul style="list-style-type: none"> • Arithmetic and Relational operators with example |
| 3rd | 1st | <ul style="list-style-type: none"> • Logical, increment and decrement operators |
| | 2nd | <ul style="list-style-type: none"> • Bitwise operators |
| | 3rd | <ul style="list-style-type: none"> • Control Flow Statements(if,if-else, switch) |
| | 4th | <ul style="list-style-type: none"> • Loop(for, while,do-while) |
| 4th | 1st | <ul style="list-style-type: none"> • Program using loops |

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| | 2nd | <ul style="list-style-type: none"> • Arrays, Non-Primitive Data types |
| | 3rd | <ul style="list-style-type: none"> • String |
| | 4th | <ul style="list-style-type: none"> • UNIT-III: Objects And Classes • Concept and Syntax of class |
| 5th | 1st | <ul style="list-style-type: none"> • Defining a Class • Defining Method & Access Control |
| | 2nd | <ul style="list-style-type: none"> • Creating an Object • Accessing Class Members • Instance Data and Class Data |
| | 3rd | <ul style="list-style-type: none"> • Constructors • Types of constructor |
| | 4th | <ul style="list-style-type: none"> • Access specifiers • Types of access specifier |
| 6th | 1st | <ul style="list-style-type: none"> • Smart Class using NPTEL Reference |
| | 2nd | <ul style="list-style-type: none"> • UNIT-IV: String Builder and String Buffer |
| | 3rd | <ul style="list-style-type: none"> • Methods and Messages |
| | 4th | <ul style="list-style-type: none"> • Parameter Passing • Comparing and Identifying Objects |
| 7th | 1st | <ul style="list-style-type: none"> • Video content class using NPTEL Reference |
| | | <ul style="list-style-type: none"> • UNIT-V: Inheritance in Java • Types of inheritance |
| | 2nd | <ul style="list-style-type: none"> • Single Inheritance(Example) |
| | | <ul style="list-style-type: none"> • Multi-level Inheritance(Example) |
| | 3rd | <ul style="list-style-type: none"> • Hierarchical Inheritance • Hybrid Inheritance |
| | 4th | <ul style="list-style-type: none"> • Quiz Test-I |
| 8th | 1st | <ul style="list-style-type: none"> • UNIT-VI: Polymorphism • Types of Polymorphism |

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| | 2nd | <ul style="list-style-type: none"> • Method Overloading • Method Overriding |
| | 3rd | <ul style="list-style-type: none"> • Runtime Polymorphism |
| | 4th | <ul style="list-style-type: none"> • UNIT-VII:Packages:putting classes together • Introduction to Java API Packages |
| 9th | 1st | <ul style="list-style-type: none"> • Using System Packages • Using a Package |
| | 2nd | <ul style="list-style-type: none"> • Static Import • Naming Convention |
| | 3rd | <ul style="list-style-type: none"> • Creating Packages • Accessing a Package |
| | 4th | <ul style="list-style-type: none"> • Adding a Class to Package • Hiding Classes |
| 10th | 1st | <ul style="list-style-type: none"> • UNIT-VIII:Java files and i/o • What is a stream? |
| | 2nd | <ul style="list-style-type: none"> • Reading and writing to files(only txt files) |
| | 3rd | <ul style="list-style-type: none"> • Input and Output Stream |
| | 4th | <ul style="list-style-type: none"> • Manipulating Input data |
| 11th | 1st | <ul style="list-style-type: none"> • Opening and Closing Streams |
| | 2nd | <ul style="list-style-type: none"> • Predefined streams |
| | 3rd | <ul style="list-style-type: none"> • File handling Classes and Methods |
| | 4th | <ul style="list-style-type: none"> • UNIT-IX:Exceptions Overview • Types of exception . |
| 12th | 1st | <ul style="list-style-type: none"> • Exception Keywords • Exceptions(program) |
| | 2nd | <ul style="list-style-type: none"> • Catching Exceptions |

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| | 3rd | <ul style="list-style-type: none"> Using Finally Statement |
| | 4th | <ul style="list-style-type: none"> Exception Methods |
| 13th | 1st | <ul style="list-style-type: none"> Defining and throwing exceptions |
| | 2nd | <ul style="list-style-type: none"> Errors and Runtime Exceptions |
| | 3rd | <ul style="list-style-type: none"> Errors and Runtime Exceptions program |
| | 4th | <ul style="list-style-type: none"> Handling of exception |
| 14th | 1st | <ul style="list-style-type: none"> Try, throw and catch program |
| | 2nd | <ul style="list-style-type: none"> Using finally statement |
| | 3rd | <ul style="list-style-type: none"> Throwing our own exceptions |
| | 4th | <ul style="list-style-type: none"> Quiz Test-II |
| 15th | 1st | <ul style="list-style-type: none"> Revision test after syllabus coverage |
| | 2nd | <ul style="list-style-type: none"> Assignment Evaluation |
| | 3rd | <ul style="list-style-type: none"> Discussing previous year question paper after finishing the syllabus |
| | 4th | <ul style="list-style-type: none"> Class Test |

Prafulla Kumar Munde
Signature of faculty