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| <b>DISCIPLINE:</b><br>CSE | <b>SEMESTER:</b> 3RD                                   | <b>NAME OF THE TEACHING FACULTY:</b><br>Rameswari Patnaik |
| <b>SUBJECT:</b><br>OOM    | <b>NO.OF DAYS/PER WEEK</b><br><b>CLASS ALLOTTED: 4</b> | <b>NO.OF WEEKS:</b> 15                                    |
| <b>WEEK</b>               | <b>CLASS DAY</b>                                       | <b>THEORY/PRACTICAL TOPICS</b>                            |
| 1 <sup>ST</sup>           | 1 <sup>ST</sup>  | Programming Languages                                     |
|                           | 2 <sup>ND</sup>  | Object Oriented Programming                               |
|                           | 3 <sup>RD</sup>  | OOPS concepts and terminology                             |
|                           | 4 <sup>TH</sup>  | Benefit of OOPS   |
| 2 <sup>ND</sup>           | 1 <sup>ST</sup>  | Application of OOPS                                       |
|                           | 2 <sup>ND</sup>  | INTRODUCTION TO JAVA 2.1 What is Java                     |
|                           | 3 <sup>RD</sup>  | Execution Model of Java 2.3 The Java Virtual Machine      |
|                           | 4 <sup>TH</sup>  | A First Java Program 2.5 Variables and Data types         |
| 3 <sup>RD</sup>           | 1 <sup>ST</sup>  | Primitive Datatypes & Declarations                        |
|                           | 2 <sup>ND</sup>  | Numeric and Character Literals 2.8 String Literals        |
|                           | 3 <sup>RD</sup>  | Arrays, Non-Primitive Datatypes                           |
|                           | 4 <sup>TH</sup>  | Casting and Type Casting                                  |
| 4 <sup>TH</sup>           | 1 <sup>ST</sup>  | Widening and Narrowing Conversions                        |
|                           | 2 <sup>ND</sup>  | Operators and Expressions                                 |
|                           | 3 <sup>RD</sup>  | Control Flow Statements                                   |
|                           | 4 <sup>TH</sup>  | OBJECTS AND CLASSES 3.1 Concept and Syntax of class       |
| 5 <sup>TH</sup>           | 1 <sup>ST</sup>  | Defining a Class 3.3 Concept and Syntax of Methods        |
|                           | 2 <sup>ND</sup>  | Defining Methods 3.5 Creating an Object                   |
|                           | 3 <sup>RD</sup>  | Accessing Class Members 3.7 Instance Data and ClassData   |
|                           | 4 <sup>TH</sup>  | Constructors  |
| 6 <sup>TH</sup>           | 1 <sup>ST</sup>  | Access specifiers   |
|                           | 2 <sup>ND</sup>  | Access Modifiers  |
|                           | 3 <sup>RD</sup>  | Access Control  |
|                           | 4 <sup>TH</sup>  | USING JAVA OBJECTS  |
| 7 <sup>TH</sup>           | 1 <sup>ST</sup>  | String Builder and String Buffer                          |
|                           | 2 <sup>ND</sup>  | Methods and Messages                                      |
|                           | 3 <sup>RD</sup>  | Methods and Messages                                      |
|                           | 4 <sup>TH</sup>  | Parameter Passing   |
| 8 <sup>TH</sup>           | 1 <sup>ST</sup>  | Comparing and Identifying Objects                         |
|                           | 2 <sup>ND</sup>  | INHERITANCE   |
|                           | 3 <sup>RD</sup>  | Inheritance in Java                                       |
|                           | 4 <sup>TH</sup>  | Use of Inheritance  |
| 9 <sup>TH</sup>           | 1 <sup>ST</sup>  | Types of Inheritance                                      |
|                           | 2 <sup>ND</sup>  | Single Inheritance  |
|                           | 3 <sup>RD</sup>  | Multi-level Inheritance                                   |

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|                  | 4 <sup>TH</sup> | Hierarchical Inheritance  |
| 10 <sup>TH</sup> | 1 <sup>ST</sup> | Hybrid Inheritance  |
|                  | 2 <sup>ND</sup> | POLYMORPHISM  |
|                  | 3 <sup>RD</sup> | Types of Polymorphism   |
|                  | 4 <sup>TH</sup> | Types of Polymorphism   |
| 11 <sup>TH</sup> | 1 <sup>ST</sup> | Method Overloading  |
|                  | 2 <sup>ND</sup> | Method Overloading  |
|                  | 3 <sup>RD</sup> | Run time Polymorphism   |
|                  | 4 <sup>TH</sup> | Run time Polymorphism   |
| 12 <sup>TH</sup> | 1 <sup>ST</sup> | Method Overriding   |
|                  | 2 <sup>ND</sup> | PACKAGES: PUTTING CLASSES TOGETHER 7.1 Introduction                     |
|                  | 3 <sup>RD</sup> | Java API Packages 7.3 Using System Packages                             |
|                  | 4 <sup>TH</sup> | Naming Convention 7.5 Creating Packages                                 |
| 13 <sup>TH</sup> | 1 <sup>ST</sup> | Accessing a Package 7.7 Using a Package                                 |
|                  | 2 <sup>ND</sup> | Adding a Class to Package   |
|                  | 3 <sup>RD</sup> | Hiding Classes 7.10 Static Import                                       |
|                  | 4 <sup>TH</sup> | JAVA FILES AND I/O 05 8.1 What is a stream                              |
| 14 <sup>TH</sup> | 1 <sup>ST</sup> | Reading and writing to files(only txt files 8.3 Input and Output Stream |
|                  | 2 <sup>ND</sup> | Manipulating Input data 8.5 Opening and Closing Streams                 |
|                  | 3 <sup>RD</sup> | Predefined streams  |
|                  | 4 <sup>TH</sup> | File handling Classes and Methods                                       |
| 15 <sup>TH</sup> | 1 <sup>ST</sup> | EXCEPTION HANDLING 9.1 Exceptions Overview                              |
|                  | 2 <sup>ND</sup> | Exception Keywords 9.3 Catching Exceptions                              |
|                  | 3 <sup>RD</sup> | Using Finally Statement 9.5 Exception Methods 9.6 Declaring Exceptions  |
|                  | 4 <sup>TH</sup> | Defining and throwing exceptions 9.8 Errors and Runtime Exceptions      |