# 20CS22P4 - OBJECT ORIENTED PROGRAMMING THROUGH JAVA LABORATORY

**(EEE)**

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| Course Category: | Program Core | Credits: | 1.5 |
| Course Type: | Practical  | Lecture-Tutorial-Practical: | 0-0-3 |
| Prerequisite: | Basic knowledge of programming fundamentals. | Sessional Evaluation:Univ. Exam Evaluation:Total Marks: | 4060100 |
| Objectives: | * To strengthen the ability to identify and apply the suitable object-oriented concept for the given real-world problems.
* To learn skills to create the applications in java.
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| Course Outcomes | After the completion of this lab, the students will be able to develop various applications using core concepts of Java. |
| Course Content | 1. Write a Java program
	1. To demonstrate blocks of code in java
	2. For matrix multiplication (Read input from the user)
2. Write a Java program to create class called Box.
	1. Create objects of type Box and assign values to the side. Find and print the volume of each box objects created.
	2. Create overloaded constructors and return the volume of the Box from a method.
3. Write a Java program
	1. To create a multi-level hierarchy using the Box class
4. Write a Java program
	1. To create Abstract classes and use the created abstract class
	2. To prevent overriding of methods.
5. Write a Java program that demonstrates
	1. Multiple catch clauses.
	2. Nested try statements
6. Write a Java program that describes the exception handling mechanism.
7. Write a Java program to implement event handling.
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| Reference Books | **Reference Books:**1. Java: The Complete Reference, 10th Edition, Herbert Schildt TMH, Indian Edition.
2. An introduction to java programming and object-oriented application development, R A Johson-Thomson.
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