



Computer Science Paper IX
Practical Course Based on BS52205
[Discipline Specific Course]

Semester: V

Credits: 2

Subject Code: BSP52209

Lectures: 36

Course Outcomes:

At the end of this course, the learner will be able to:

- Use an integrated development environment to write, compile, run, and test simple object-oriented Java programs
- Analyse and write Java programs that solve real-world problems
- Validate input in a Java program using Exception Handling
- Design graphical user interfaces using Swing and AWT library

Assignment 1: Java Tools and IDE, Simple java programs	8
Assignment 2: Array of Objects and Packages	8
Assignment 3: Inheritance and Interfaces	4
Assignment 4: Exception and File Handling	4
Assignment 5: GUI Designing, Event Handling	12

Recommended Reference Books:

- Cay S. Horstmann, Gary Cornell, *Core Java Volume-I-Fundamentals*, Eighth Edition, Prentice Hall, Sun Microsystems Press
- E. Balagurusamy, *Programming with Java , A primer* ,Fourth edition
- Herbert Schildt, *Complete reference Java (5th edition)*
- Steven Horlzner , *Java 2 programming black book*

Board of Studies	Name	Signature (in white cell)
Chairperson (HoD)	Ms Ashwini Kulkarni	<i>14/8/21</i>
Faculty	Ms. Smita Borkar	<i>14/8/21</i>
Faculty	Ms. Shubhangi Jagtap	<i>Shubhangi 14/8/21</i>
Subject Expert (Outside SPPU)	Prof. Aniket Nagne	<i>14/8/21</i>
Subject Expert (Outside SPPU)	Dr. Manisha Divate	<i>Divate 14/8/21</i>
VC Nominee	Dr. Manisha Bharambe	<i>M.Bharambe 14/8/21</i>
Industry Expert	Ms Snehal Biyala	<i>S.Biyala 14/8/21</i>
Alumni	Ms. Mamta Choudhary	<i>M.Choudhary 14/8/21</i>

Board of Studies	Name	Signature
Chairperson	Ms Ashwini Kulkarni	<i>14/8/21</i>