JAVA Programming

Course Code	23SO8553	Year	III	Semester	I
Course Category	SOC	Branch	ECE	Course Type	Practical
Credits	2	L-T-P	1-0-2	Prerequisites	Programming With C
Continuous Internal Evaluation:	30	Semester End Evaluation:	70	Total Marks:	100

Course Outcomes				
Upon suc	Upon successful completion of the course, the student will be able to			
CO1	Apply object oriented principles/ Java constructs for solving problems.	L3		
CO2	CO2 Implement programs as an individual on different IDE/ online platforms.			
CO3	CO3 Develop an effective report based on various programs implemented			
CO4	Apply technical knowledge for a given problem and express with an Effective	L3		
	oral communication.			
CO5	Analyze outputs using given constraints/test cases.	L4		

Contribution of Course Outcomes towards achievement of Program Outcomes & Strength of										ı of				
Correlations (3:High, 2:Medium, 1:Low)														
COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3				3				1			1	1	
CO2	3				3				1			1	1	
CO3								1	1	3		1		
CO4								1	1	3		1		
CO5	3	3			3				1			1	1	
Average	3	3			3			1	1	3		1	1	

	Syllabus					
Expt. No.	Expt. No. Contents					
1	Implement Java Programs by using Conditional Statements, Switch and loops with suitable examples	CO1-CO5				
2	Develop Java Programs Using 1D Arrays and 2D arrays	CO1-CO5				
3	Use String, String Buffer and String Tokenizer classes to develop Java programs	CO1-CO5				
4	Implement the concept of static variables, static methods and static block	CO1-CO5				
5	Implement the concept of instantiation of objects using Classes	CO1-CO5				
6	Implement reusability concept through inheritance	CO1-CO5				
7	Implement concept of Polymorphism using method: Overloading and overriding	CO1-CO5				

8	Develop Java programs using Abstract Class to achieve Partial abstraction	CO1-CO5
9	Use interfaces to develop Java programs with complete Abstraction	CO1-CO5
10	Create a package and access members from the package to avoid naming conflicts.	CO1-CO5
11	Implement Exception handling to build robust programs.	CO1-CO5
12	Develop Java programs using Multithreading for process synchronization	CO1-CO5
13	Implement various data structures using Collection framework	CO1-CO5

Learning Resources	
Text Books	
1. Herbert Schildt Java - The Complete Reference, 9 th Ed., McGraw-Hill.	
Reference Books	
1. Y. Daniel Liang Pearson - Introduction to Java Programming 10 th Ed.,	
e- Resources & other digital material	
1. https://nptel.ac.in/courses/106105191	