



Vel Tech
Rangarajan Dr. Sagunthala
R&D Institute of Science and Technology
(Deemed to be University Estd. u/s 3 of UGC Act, 1956)



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WEEKLY LESSON PLAN

Department: Computer Science and Engineering

Year / Semester: 2025-26 / Winter

Course Code / Course Name: 10211CS225 / Problem Solving and Testing using Java

UNIT I – Functional Programming

Course Outcome: Apply functional programming features of Java, including lambda expressions, streams, and method references, to solve programming problems efficiently.

Week	Session	Topics to be Covered	Problems to Practice (Hands-On)	Platform
Week 1	Session 1	Course Orientation Time Complexity Analysis	Link-1: https://www.codechef.com/learn/course/time-complexity Link-2: https://read.learnyard.com/dsa/introduction-to-time-complexity/	Mettl
	Session 2	Introduction to Online Compiler and Mettl Solve one Problem using Mettl	Task 1: https://tests.mettl.com/authenticateKey/2bd025dc	
	Session 3	Using Notepad and Command Prompt -Solve 5 Problems	Task 2. Access and print the element at a given index in an array. Task 3. Search for a given element in a sorted array using Binary Search. Task 4. Find the maximum element in an array of n integers Task 5. Given an array of integers and a positive integer K, write a program to find: The Kth smallest element Task 6. Print all possible pairs of elements from an array of size n.	
	Session 4	Lambda Expressions	Task 7: digitSum opt: sum of even or odd digits Task 8: Nth Fibonacci	
	Session 5	Functional Interfaces & Method References	Task 9: Is Palindrome Number? Task 10: Sum of last digit of two given numbers	