S. No.	Date	Title	Page No.	Teacher's Sign / Remarks
				C++ Basics
1		Intro to C++		
2		Variable & op, ip in C++		
3		Operators in C++		
4		If else & Switch statements | Conditionals in C++		RECAP-1
5		Loops in C++ | For, while, do-while		
6		Pattern printing | Problems on loops		
7		Problems on loops ~ Part 2		RECAP-2
8		Number system | Decimal & Binary		
9		Functions in C++		
10		Functions - 2 | Pass by value & pass by reference		RECAP-3
11		Array - 1 | Array creation, types & operations		
12		Vectors in C++ | Looping & problem solving	Arrays 2	
13		Target Sum | Prob. in Arrays - 1		
14		Two pointers | Problems in Arrays - 2		
15		Prefix sum problems | Problems in Arrays - 3		RECAP-4
16		2D - Arrays - 1 | What, Why, & How?		
17		Imp. prob in 2D Arrays | 2D vectors, Pascal's Δ		
18		Advanced Problem Solving in 2D Arrays		
19		Advanced Problem Solving in 2D Arrays - 2		
20		Advanced Problem Solving in 2D Arrays - 3		
21		Time Space Complexity & Big O Notation | How to avoid TLE		
22		Calculating Time Complexity | Problem Solving		
23		Pointers - 1 | Introduction, Data Storage & Access using Pointers		
24		Pointers - 2 | Call by reference, Arithmatic & Array as a pointer		
25		Pointers - 3 | Types of Pointers, Null, Wild, Dangling, Void		
26		Recursion | Recursion concept and problems		C++ Intermediate

S. No.	Date	Title	Page No.	Teacher's Sign / Remarks
27		Recursion Problems 1 | Sum of digits & power of a num.		
28		Problem Solving on Recursion - 2 | Recursive operations on arrays		
29		Problem Solving on Recursion - 3 | String Problems		
30		Problem Solving on Recursion - 4 | Basic Problems		
31		Problem Solving on Recursion - 5 | Frog Jump problem		
32		Problem Solving On Recursion - 6		
33		Problem Solving on Recursion - 7 | Subsequence concept		
34		Bubble sort algorithm | Optimized Bubble Sort		
35		Selection Sort Algorithm		
36		Insertion Sort Algorithm		
37		Problem solving on sorting algorithms - 1		
38		Merge Sort Algorithm		
39		Quick Sort Algorithm		
40		Count Sort Algorithm | Radix Sort Algorithm		
41		Bucket Sort Algorithm		
42		Problem Solving on sorting algorithms - 2		
43		Problem Solving on sorting algorithms - 3		
44		Binary Search Algorithm		
45		Binary Search Problems - 1		
46		Binary Search Problems - 2		
47		Binary Search Problems - 3 COMPLEXITIES OF SORT. ALGO.		
48		Strings		
49		OOPS C++ Upper Intermediate 2.1		
50		Linked list in C++ - Part 1		
51		Linked list Part 2		

S. No.	Date	Title	Page No.	Teacher's Sign / Remarks
52		Doubly Linked List		
53		Circular Linked List		
54		Stacks - 1		
55		Stacks - Important Problems		
56		Stacks_Interview Questions		
57		Queues - 1 - Basics, STL and Implementation		
58		Queues - Interview Questions		
59		Set C++ in One Shot - STL & Types		
60		Introduction to Hashing and Hash Table		
61		Hashmap - STL & Types_Implementation		
62		Hashmap - Important Problems in STL_Unordered map		
63		Backtracking - 1		
64		Backtracking - 2		
65		Binary Trees - 1		
66		Interview Problems On Binary Trees		
67		Binary Search Trees		
68		Interview Problems on BST		
69		Generic Trees		
70		Heaps		
71		Priority Queue		
72		Greedy 1		
73		Greedy 2		
74		DP - 1		
75		DP - 2		
76		Interview Problems on DP - 1		
77		Interview Problems on DP - 2		

C++ Upper Intermediate 2.2

C++ Advanced

S. No.	Date	Title	Page No.	Teacher's Sign / Remarks
78		Interview Problems on DP-3		
79		Graph Introduction		
80		Graphs Implementation		
81		Graphs BFS & DFS		
82		Problems based on BFS and DFS		

83		Graphs - Disjoint Set Union
84		Topological Sorting and Cycle detection
85		Kruskal & Prims Algorithms
86		Dijkstra's Algorithm
87		Questions & Concepts!
	.1	Bit Manipulation