

# Apex-Placement Course Structure

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## Week 1

<b>Day 1</b>	Basic Introduction to C++ Programming Variables, Header files, Build process compilation V/S execution of program
<b>Day 2</b>	Loops in C++ Switch case Introduction to Arrays
<b>Day 3</b>	Functions Introduction to STL & Vectors
<b>Day 4</b>	Time Complexity
<b>Day 5</b>	<i>Database Management system - 1</i>
<b>Day 6</b>	<i>Guest session with Software Engineer of Microsoft</i>
<b>Day 7</b>	Quiz and Practice Contest

## Week 2

<b>Day 1</b>	Introduction to Sorting and various sorting methods
<b>Day 2</b>	Sorting - 2
<b>Day 3</b>	Understanding Sets & Maps and various STL
<b>Day 4</b>	Definition and uses of structures & strings ASCII table
<b>Day 5</b>	<i>Database Management system - 2</i>
<b>Day 6</b>	<i>Strategy discussion for next 2 months</i>
<b>Day 7</b>	Quiz and Practice Contest

## Week 3

<b>Day 1</b>	Number system & Bitwise Operators
<b>Day 2</b>	Bit Manipulation
<b>Day 3</b>	Binary Search Algorithm
<b>Day 4</b>	Binary search -2
<b>Day 5</b>	<i>Practice on SQL</i>
<b>Day 6</b>	<i>Guest session with Software Engineer of Oracle</i>
<b>Day 7</b>	Quiz and Practice Contest

## Week 4

<b>Day 1</b>	Introduction to pointers and where all it's used. Introduction to pointer to an pointer
<b>Day 2</b>	Array as a pointer and its uses. Use of pointers in the function.
<b>Day 3</b>	Divide and Conquer Strategy Greedy Algorithms
<b>Day 4</b>	Divide and Conquer Strategy Greedy Algorithms -2
<b>Day 5</b>	<i>Project on Dbms - 2</i>
<b>Day 6</b>	<i>Cracking off-campus placement &amp; How to use LinkedIn</i>
<b>Day 7</b>	Quiz and Practice Contest

## Week 5

<b>Day 1</b>	Introduction to Recursion and its use
<b>Day 2</b>	Advanced use cases of recursion
<b>Day 3</b>	2 pointer approach
<b>Day 4</b>	2 pointers -2
<b>Day 5</b>	<i>Object-Oriented Programming concepts - 1</i>

<b>Day 6</b>	<i>Resume-making session</i>
<b>Day 7</b>	Quiz and Practice Contest

## Week 6

<b>Day 1</b>	Introduction and use cases of Stacks
<b>Day 2</b>	Introduction and use cases of Queues
<b>Day 3</b>	Stacks & Queues - Advanced questions
<b>Day 4</b>	Introduction of Linked lists.
<b>Day 5</b>	<i>Object-Oriented Programming concepts - 2</i>
<b>Day 6</b>	<i>Guest session with Software Engineer of Google</i>
<b>Day 7</b>	Quiz and Practice Contest

## Week 7

<b>Day 1</b>	Advance Use cases of Linked Lists
<b>Day 2</b>	Introduction to Trees
<b>Day 3</b>	Use cases of Trees
<b>Day 4</b>	Advance use cases and tree algorithms
<b>Day 5</b>	<i>Operating Systems-1</i>
<b>Day 6</b>	<i>Interview - decorum session</i>
<b>Day 7</b>	Quiz and Practice Contest

## Week 8

<b>Day 1</b>	Introduction to Graphs
<b>Day 2</b>	Graphs basics continue along with use cases of graph.
<b>Day 3</b>	Various Graph Algorithms
<b>Day 4</b>	Introduction to heap and its uses

<b>Day 5</b>	<i>Operating Systems-2</i>
<b>Day 6</b>	<i>Current Hiring trend analysis Interview experience of Instructors</i>
<b>Day 7</b>	Quiz and Practice Contest

## Week 9

<b>Day 1</b>	Advance use cases of heaps
<b>Day 2</b>	Hashing techniques
<b>Day 3</b>	Introduction to Dynamic Programming
<b>Day 4</b>	Continuation of Dynamic Programming basics
<b>Day 5</b>	<i>Computer Networks-1</i>
<b>Day 6</b>	<i>Mock Interviews</i>
<b>Day 7</b>	<i>Mock Interviews</i>

## Week 10

<b>Day 1</b>	Introduction to 2D DP and it's uses
<b>Day 2</b>	<i>Web-development project - 1</i>
<b>Day 3</b>	<i>Web-development project - 2</i>
<b>Day 4</b>	<i>Web-development project - 3</i>
<b>Day 5</b>	<i>Computer Networks-2</i>
<b>Day 6</b>	<i>Completion of course and further steps guidance for placements</i>
<b>Day 7</b>	<i>Mock Interviews</i>

## Our Goal

We are committed to helping you in any way to get you placed in your dream company. The course structure is made by keeping in mind the needs of 2nd/3rd/4th year students for their interview preparation!!

Along with these, you will also have the following benefits:

1. Mock interviews to help you get accustomed to the online process
2. Progress tracking to keep you on track
3. On-call consultation about your career decisions when needed
4. Referrals & certifications
5. A healthy friendly peer group to help you upskill
6. Fun sessions to lighten you up
7. Regular pep talks to motivate you
8. Access to recordings and material for future use
9. Regular job updates

Apply now at our website: [www.upskillvalley.com](http://www.upskillvalley.com)

Note:

1. The course structure is flexible and can be changed as per the need of the students.
2. Due to limited bandwidth, we can only take few students.