

COMPUTER SCIENCE SYLLABUS (CLASS XII)

SESSION : 2018-19

TERM I

APRIL-

- Objects and Classes
 - What is an object?
 - What is a class?
 - Constructors, Methods, Instance Members
- Primitive Values, Types, Casting, Variables & Expressions
 - Java Character Set
 - Tokens, Wrapper Classes
 - Expressions, Operators
 - Assignment Operation in Java

MAY-

- Operations on Files
 - File Handling in Java
 - String Tokenizer, Stream Tokenizer
 - Printing in Java

JUNE-

- Recursion
 - Recursion in Java
 - Recursive methods
 - Recursion vs. Iteration

JULY-

- Boolean Algebra
 - Propositional Logic
 - Logical Operations
 - Basic Logic Gates
 - Principal of Duality
 - Demorgan's Theorems
 - Derivation of Boolean Expression
 - Minimization of Boolean Expression
- Computer Hardware
 - Elementary Logic Gates
 - Application of Logic Gates

AUGUST-

- Arrays and Strings
 - Introduction to Arrays
 - Types of Arrays
 - Working with Strings

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- String functions

SEPTEMBER-

- Concept of Inheritance
 - Need for Inheritance
 - Different Forms of Inheritance
 - Derived and Base Classes
 - Abstract Classes
 - Interfaces
 - Polymorphism in Java

TERM II

OCTOBER-

- Exception Handling
 - Exception handling blocks
 - Exception Hierarchy
 - Forcing an Exception
 - Benefits of Exception Handling
- Simple Data Structures
 - Singly Linked Lists
 - Stack
 - Queue

NOVEMBER-

- Recursive Data Structures
 - Recursive Lists
 - Introducing Trees
 - Recursive Binary Trees
- Computational Complexity
 - Estimating Complexity of Algorithms
 - Best, Average and Worst Case Complexity
 - Big O Notation

DECEMBER-

Revision

PRE BOARD

JANUARY-

Revision

FEBRUARY-

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Revision