

BLOOM PUBLIC SCHOOL
VASANT KUNJ, NEW DELHI

SYLLABUS: 2019-2020

SUBJECT: Computer Programming *With C++*

CLASS: X

MONTH	CHAPTERS
April-May	Basics of Programming <ul style="list-style-type: none">• How computer works?• Bits and Bytes• Machine Language• Assembly Language• High level Languages• Fourth Generation Language• Basic of Computer Program Introduction to Problem Solving <ul style="list-style-type: none">• Designing a Problem• Understanding Algorithms• Understanding Flow Chart• Coding the Problem• Testing the Problem
July	Introduction to C++ Language <ul style="list-style-type: none">• What is C++?• Why to use C++?• How to develop a program?• Compiling the program• Testing and debugging the Program My First Program in C++ <ul style="list-style-type: none">• A simple program in C++• Understanding C++ Program structure• Header file i.e. iostream.h• Main Function i.e. int main()/void main ()• Cout statement• Return statement

August	Variables in C++ and Standard I/O Stream <ul style="list-style-type: none"> • Knowing about C++ variables • How to declare variable • Rules for naming variables • Reserved keywords in C++ • Knowing about constants • Standard Input/output Stream • Standard Output (cout) • Standard Input (cin)
September	Understanding Operators in C++ <ul style="list-style-type: none"> • Operators in C++ • Arithmetic Operators • Prefix & Postfix Operators • Relational Operators • Logical Operators • Bitwise Operators • Assignment Operators
October	Decision Making in C++ language <ul style="list-style-type: none"> • Understanding Conditional Statements • Decision Making Statements in C++ • If statement • If ...else statement • Nested if statement • Switch Case statement
November	Loop Control in C++ Language <ul style="list-style-type: none"> • Knowing Loops • For Loops • While Loops • Do while loops • Nested loops Control Flow in C++ language <ul style="list-style-type: none"> • break statement in C++ • continue statement in C++ • goto statement in C++
December	Understanding Functions in C++ <ul style="list-style-type: none"> • Knowing about C++ functions • Why do we use functions?

	<ul style="list-style-type: none"> • Built in functions • Pre-defined functions • User defined functions • Console functions • Standard Library functions
January	Understanding Arrays in C++ <ul style="list-style-type: none"> • Knowing arrays • Array Declaration • Array Initialization • Accessing Array elements • Multidimensional Arrays • Array of Strings Project/ based on topic learnt
February	Revision

ASSESSMENT SYLLABUS

*All Assessments would be PRACTICAL in nature.

ASSESSMENT	SYLLABUS
HALF YEARLY	Basics of Programming Introduction to Problem Solving Introduction to C++ Language My First Program in C++ Variables in C++ and Standard I/O Stream Understanding Operators in C++
YEARLY	Decision Making in C++ language Loop Control in C++ Language Control Flow in C++ language Understanding Functions in C++ Understanding Arrays in C++