



# Maharashtra State Board of Secondary & Higher Secondary School, Pune

*Department of Computer Science*

**Subject: Computer Science-I (D9)**

**Standard: XI**

**Faculty: Science**

**\*Syllabus\***

**XI Computer Science-I( Theory & Practical )**

## Theory Index

<b>Sr.No.</b>	<b>Unit/Topic</b>	<b>Weightage</b>
1	<b>Number Systems</b>	10
2	<b>Program Analysis</b>	8
3	<b>Introduction to C++</b>	12
4	<b>Visual Basic</b>	10
5	<b>Networking &amp; Internet</b>	10

## Practical Index

Sr. No.	Practical's Name
1	Study of win98 Desktop-a) My Computer b)Task Bar c) Navigation with help of Mouse, d) Maximize, Minimize, Close, Restore windows
2	Study of win98-Start Menu, Execution of a package like Word, etc.
3	File operations using explorer
4	C++ Program-Study of structure of C++ program
5	C++ Program-Using Operators
6	C++ Program-Using Control structures
7	C++ Program-Using Functions
8	C++ Program-Using Unformatted I\O Operations
9	VB Programs-Study of IDE and Navigation through various windows & Menus
10	VB Programs-Study of toolbox and property Editor
11	VB Programs-use of buttons, labels, text windows, picture boxes, check boxes And option buttons etc.
12	VB Programs- Programs a simple Addition/ Subtraction Calculator
13	Internet- Study how to write & send mail
14	Internet- Study of browser and access sites on Hard Disk
15	Internet-Use of Chat (Optional)
16	Internet – study of FTP

## Syllabus

Sr. No.	Name of the Topic	Scope of Syllabus
1	<b>Number Systems</b>	Binary Numbers, Decimal, Octal, Hexadecimal, BCD, Conversion for one numbers to another, ASCII Code, Binary Addition, Subtraction for 1's & 2's Complement, Binary Multiplication And Division
2.	<b>Program Analysis</b>	Analysis of program, Pseudo code, Design steps, Flow charts, Structured & Modular programming
3.	<b>Introduction to C++</b>	Introduction to structure of C++ program keywords, Identifiers, Basic data types, User defined Data types, Derived data types, Constants, type compatibilities, Declaration of variables operators in C++, Memory management operators, manipulators Control structures-If, Switch, Do, While, For function in C++,Standard C++ Liabrary, I/O Functions prototyping, Call by Reference, Return by Reference unformatted I/O operations, simple program in C++
4.	<b>Visual Basic</b>	Introduction to Visual Basic, VB Environment-Menu bar, Toolbox, Properties setting for layout, Visual basic programming- Variables arrays, relational operators, Control flow statements, Loop statement , Nesting of loops, use of built in functions, Event Driven Programming. A simple VB Project-Simple Calculator.
5.	<b>Chapter 5: Networking &amp; Internet</b>	Networking Terms & Concept- Centralized, Distributed, Collaborative Types of network-LAN,MAN,WAN Network applications- Email, Voice mail, FTP, WWW, Ecommerce, Chat, BBS, user Group