

Punjab Board

SYLLABUS

2024-2025

Syllabus - Computer Science

Session 2024-25

Class 6th

❖ Introduction to Computers

- Introduction to Computers, Uses of Computers
- **Applications of Computer**: Education, Entertainment, Sports, Communication, Shops, Hospital, Banks, Government Offices, Travel
- **Characteristics of Computer**: Speed, Accuracy, Reliability, Diligence, Automation, Storage
- **Portable Computing Devices**: Mobile (Smart Phones), Tablet Computer, Palmtop Computer, Laptop Computer
- Limitations of Computer

❖ Computer Components

- **Introduction to Basic/Standard Components of A Computer System**: How computer works (Input, Processing, Output)
- **Block Diagram of Computer**: Parts of Central Processing Unit (Memory Unit, Control Unit, Arithmetic Logical Unit (ALU))
- **Types of Computer Memories**: Primary Memory, Secondary Memory
- **Categories of Computer**: Micro Computer (Personal Computer), Mini Computer, Main Frame Computer, Super Computer

❖ Basics of Working with Computers:

- **Operating System**: Windows, DOS, Android
- **Starting Computer System**: Powering On, Logging In
- **Desktop and Its Components**: Icons (My Computer, Network, Recycle Bin, User's Files), Shortcuts, Wallpaper, Changing Wallpaper, Taskbar (Start Button, Quick launch Bar, System Tray, Notification Area, Clock, Active Programs)
- **Working with Windows Applications**: Notepad, WordPad, Paint, Calculator, Using Run Box, Search Box of Start Menu
- **Shutting Down Computer System**: Sleep, Shut Down, Log Off, Restart

❖ MS Paint

- What is Paint?
- How to start the MS-Paint
- **Parts of a Paint Window**: Title Bar, Quick Access Toolbar, Menu Bar (Paint button, Home tab, View tab), Vertical and Horizontal Scroll Bar, Status bar, Work Area
- Saving the Drawing
- **Home Tab Ribbon**: Clipboard (cut, copy, paste), Image (Select Option, Copying a selection, Painting with a selection, Selection option (Crop, Resize and Rotate flip), Invert Color, Tools (Pencil, Fill with Color, Text Tool, Eraser, Color Picker, Magnifier), Brushes, Shapes, Size, Colours (Color Boxes, Color Palette, Edit Colors) Groups
- **View Tab Ribbon**: Zoom, Show or Hide, Display Groups

❖ Hardware and Software

- **Hardware:** Features of Hardware, System Unit (CPU), Motherboard (Hard Drive, Video Card, Processor, FAN, RAM slot, Power Supply, CD/DVD), Important points for taking care of Hardware
- What is Software? Definition
- **Types of Software** - System software, Application Software
- Difference between System Software and Application Software
- Relationship between Hardware & Software

❖ Input Devices

- Input devices, Uses of Input Devices
- Keyboard, Different types of keys on Keyboard, Mouse and its buttons, Mouse pad, Microphone, Scanner, Web Camera, Touch Pad, Bar Code Reader, Light Pen, Joy Stick, Touch Screen, Biometric, Electronic Signature Pad

❖ Output Devices

- Output Devices, Types of output devices
- Monitor (Cathode-Ray Tube (CRT), Flat- Panel Display), Printer (Dot matrix Printer, Inkjet Printer, Laser Printer), Speaker, Headphone, Plotter, Projector
- Difference between Input & Output Devices

Study Materials

aglasem.com

Model Papers

Sample Papers

Half Yearly Sample Papers

Important Resources

Periodic Table

Writing Skills / Formats

Maps of India / World

Notes

- [ ] Class 6 Notes
- [ ] Class 7 Notes
- [ ] Class 8 Notes
- [ ] Class 9 Notes
- [ ] Class 10 Notes
- [ ] Class 11 Notes
- [ ] Class 12 Notes

Books and Solutions

NCERT Books

NCERT Book Solutions

HC Verma Chapter Wise Solutions

RD Sharma Solutions

CGBSE Solutions