# ICT Olympiad

## Group I: Detailed Syllabus

### Web Browser and Networking

- Web terminologies and Web Browsers
- Protocols
- Transmission Media
- Networking devices
- History of internet
- Emails, Social media
- Virus & Antivirus concept
- Cyber World
- E-commerce
- Search Engines

### HTML and Gaming

- HTML Tags and attributes
- Concept of URL
- Links and Hyperlinks
- Tables
- Lists
- Various Games and related levels and details

### Hardware and Software

- Types of computers
- Generations of computers
- Components of CPU, (system unit), Microprocessors and chips
- Booting process
- Peripheral devices
- Types of storage
- Units of memory
- Inventions and Abbreviations
- Operating System
- Printers
- Input / Output devices

### GIMP

- Tools
- Interface, File extension and shortcut keys
- Commands and filters

## LOGO

- LOGO Screen and its parts
- ALL LOGO commands
- Primitives and procedures

## Open Office and MS Office

- Licensed, Proprietary, Open Source software etc.
  Writer: Creating, Saving, formatting and printing documents, printing with various options
  Mail Merge, short cut keys, various tool bars, etc.
- CALC : Concept of cell, cell address, formula etc, formatting cells, various tool bars and options etc.
- Impress:Concept of slide, transitions, various PowerPoint views, Short cut keys, all tool bars, printing, saving opening, closing presentations etc.

## Tux Paint and MS Paint

- Brushes, Tools, File extensions
- Paint tools, opening, saving and creating files,
- Working with images and photos in Paint

## Scratch

- Tools
- Concept of sprite, Scratch window
- Blocks and shapes
- Screen layouts
- Sound, costumes and background
- File formats supported and used

# ICT Olympiad
## Group II: Detailed Syllabus

**Adobe Pagemaker and Photoshop**

Short Keys
Tools of toolbar
Blending Modes
Layers and Brushes
Style sheets
File extensions
Filters

**Cloud and Mobile Computing**

Concept of cloud computing
Benefits of cloud computing
iOS and Android features
File extensions
Abbreviations

**GIMP and Flash**

Key Frames, types of images
File extensions
Short Keys
Tool Bars and various Tools
Concept of layers
Frames, Panels, Tweens, Masking and Stages
Views and all related topics

**Hardware**

Computer Generations, History of computer
Abbreviations
Ports, External and Internal Devices
Orgnisation (parts) of computer
Storage devices, storage units
Networking devices,
Memory types and uses

**HTML**

Body of HTML code,
Various Tags and their uses
Tables, Forms,
File extensions
Links, Attributes

**OFFICE**

Licensed, Proprietary, Open Source software etc.
Word: Creating, Saving, formatting and printing documents, printing with various options
        Mail Merge, short cut keys, various tool bars, etc.
Excel : Concept of cell, cell address, formula etc, formatting cells, various tool bars and  options,
formulas used in Excel , etc.
PowerPoint:Concept of slide, transitions, various PowerPoint views, Short cut keys, all tool bars,
printing, saving opening, closing presentations etc.
Access : concept of database etc.

**Operating System**

Concept of operating systems
Architecture and system calls
Types of operating system, GUI
Algorithms, flow charts etc.
Compilers and Interpreters
Utility software, application software and system software
LINUX, UNIX
FIFO, GIGO etc.
Storing and retrieving data, system calls

**Web Browser and Net Working**

Concept of web browser,
Various web browsers and their features
IP addresses and MAC addresses
History of networking
Transmission media, transmission of signals,
Digital and analog signals, packets
Encryption, protocols,
Networking devices,
Abbreviations
Network security, Viruses, Worms, Trojans, Horses,
Social media and e-various apps