Teacher’s Name :- School :-

Year :- 2022 Subject :- Information & Communication Technology

Grade :- 07

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| **Competency** | **Competency Level** | **Content** | **Learning Outcomes** | **Duration / Periods** | **Expected Date** | **Taught Date** | **Others** |
| 1. Identifies the organization of the Computer | 1.1 Identifies the components of a CPU | * Different types of CPU | i. Explains functions of Arithmetic and Logical Unit (ALU) and Control Unit (CU) | 01 |  |  |  |
|  | 1.2 Describes the evolution of computers | * Brief history of Processor Element (Vacuum Tube, Transistor, IC etc.) : Clock Speed, Size, Heat, Power Consumption, Cost etc. | i. Lists land marks of CPU development  ii. Identifies the change of processor speed and other features | 01 |  |  |  |
| 2. Explores the functions of Operating system | 2.1 Describes different types of operating systems | * Windows, Mac OS, Linux, Android, mobile OSs | i. Lists various operating systems  ii. Identifies operating systems in various devices | 01 |  |  |  |
|  | 2.2 Identifies computer storage as a collection of digital data on different media | * Hard drive, Flash Drive, CD, DVD | i. Describes the usage of Hard drive, Flash Drive, CD, DVD | 01 |  |  |  |
|  | 2.3 Creates folders Save/open/edit/ delete/ re-name/ copy/move/ files | * Manipulation of Folders and Files * Copy, and move files from one storage unit to another | i. Saves and opens files in folders  ii. Organizes files as per  purposes | 02 |  |  |  |
|  | 2.4 Explores file properties | * Identification of size, type, modified date | i. Explains properties of files | 01 |  |  |  |
| 3. Uses various Safety precautions in a computer lab | 3.1 Uses various precautionary methods to protect physical components of a computer | * Surge protection and protection against voltage drops (Fuses and UPS) * Protection against physical damages (dust, humidity, insects etc.) * Protection against overheating inside the computer | i. Identifies hardware security issues.  ii. Take precautions to minimize risk to hardware components | 01 |  |  |  |
|  | 3.2 Uses various precautionary methods to protect software components of a computer. | * Use of Anti-virus and other measures against malware. * Access Controls (physical locks and passwords ) | i. Identifies software security issues  ii. Take precautions to minimize damages to software | 01 |  |  |  |
| 4. Uses text editing software to type effectively | 4.1.Uses computers efficiently by developing typing skills | * Use of proper techniques in typing (Touch Typing ) * Use of typing practice software to develop typing skill | i. Demonstrates skills in English keyboard  ii. Demonstrates skills in Sinhala/Tamil keyboard | 01 |  |  |  |
| 5. Uses programming language to develop simple programs (Using Scratch) | 5.1 Analyzes simple problems by decomposing and connecting them logically | * Use of flow charts. * Sequence * Selection (Concept of Selection) * Iteration (Concept of Iteration) | i. Demonstrates critical and analytical thinking techniques  ii. Describes sequence in flowcharts  iii. Demonstrates the use of sequence in flowcharts appropriately | 02 |  |  |  |
|  | 5.2 Develops simple programs using visual development environment (Using Scratch) | * Introduction to Interactive Development Environment – Interface (IDE) to develop computer programs * Developing simple programs(sequence type) using visual supports of programming language (using an Interface) * Specially designed to teach programming to children | i. Uses Scratch programming IDE  ii. Applies basic instructions sequentially to develop simple programs | 03 |  |  |  |
|  | 5.3 Describe the concept of variables in programs | * Definition of variable * Use of variables in programs | i. Describes the use of variables in a program  ii. Writes programs with variables appropriately | 02 |  |  |  |
|  | 5.4 Identifies the concept of errors in a program as bugs | * Introduction of an error to an error-free programs and observation of the output | i. Describes the effect of errors in a program and takes precautions to avoid errors | 01 |  |  |  |
| 6. Uses Presentation software to create presentation | 6.1 Uses basic functions of Presentation software in creating a presentation. | * Create, open, save and close a Presentation * Add Slide * Inserting files/objects (text, picture, shapes, clip art, word art etc.) * Formatting of Text * Add Multimedia and charts to a slide * Slide Designs * Move, duplicate, Hide and Delete Slides * Slide transitions | i. Create presentation using Presentation software | 05 |  |  |  |
| 7. Uses the services of the Internet and develops web pages | 7.1 Uses resources available in the Internet (text, images, audios, videos etc.) | * WWW, URL * Download images, audio, video etc. * Accessing earth maps * Trusted and untrusted websites * Authentic and reliable information | i. Uses Internet for information gathering  ii. Identifies trusted and untrusted websites  iii. Identifies authentic and reliable information | 01 |  |  |  |
|  | 7.2 Uses offline (E-mail) and online (Chat) Communication | * Web based free E-mail * Creation of accounts. * Use of e-mail: Subject, To, Bcc, Cc, Attachments, Forward, Inbox, Outbox. Draft, Trash, Spam, Reply * Online conferencing | i. Communicates via e-mails  ii. Communicates via online conferencing | 02 |  |  |  |
|  | 7.3 Develops web pages using HTML | * Creation of a web page using text, images * Text formatting * Colors * Lists | i. Designs a simple website  ii. Creates a simple website | 02 |  |  |  |
|  | 7.4 Uses the Internet safely, securely and ethically | * Protection against unauthorized access and malware * Hacking * Virus attacks * Software piracy * Protection in using the Internet against crime * Cyber bullying * Stealing others data * Online safety precautions against unknown parties (Email, social media etc.) | i. Uses the Internet safely  ii. Uses the Internet securely  iii. Uses the Internet ethically | 02 |  |  |  |

Date :- ……………………........ ……………………........ Signature of the Principal