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