

CAMBRIAN PUBLIC SCHOOL, KANKE ROAD, RANCHI
SYLLABUS
SESSION 2021-22

SUBJECT:- COMPUTER
CLASS: VIII

PRESCRIBED BOOK:

1. COMPUTERS FOR SCHOOL VOL-VIII

COURSEBOOK

MICA EDUCOM PUBLISHERS

TERM I

THEORY

- **Network [5 Theory]**
Introduction to Network and Its Advantages, Server, Workstation, NIU, Guided and Unguided Mode of Communication, LAN, MAN, WAN, PAN, CAN, Network Topologies, Internet, HTML, Webpage, Website, Web Browser, Web Address, DNS, Web Servers, URL, ISP, Modem, Internet Protocol Address, Web Portal, Switch, Hub, Bridge, Router, Gateway, Hyperlink, Bandwidth, Protocol, Cloud Computing and its advantages.
- **Number System [3 Theory]**
Decimal Number System, Binary Number System (Converting Binary to Decimal & Decimal to Binary), Octal Number System (Converting Octal to Decimal), Hexadecimal Number System (Converting Hexadecimal to Decimal), Addition in Binary Number System, Subtraction in Binary Number System
- **Programming in Python [4 Theory]**
Introduction, Installing Python, Working in Python, Character Set, Tokens, Variables, Data Type, General layout of Python Programs, Commands, Expression
- **Decision Making in Python [3 Theory]**
Introduction to Decision Making, Branching statement (if, if...else, if...elif...else statement) Decision Making with Logical Operators.

PRACTICAL ASSIGNMENTS

- **Programming in Python[3 Practical]**
Coding Program in Interactive and Script Mode, Making Programs using : Constants and Variables, Character Set, Tokens, Identifiers, Keywords, Literal, Operators, Input Statement.
- **Decision Making in Python [3 Practical]**
Making Programs using : 'if...' statement, 'if...else...' Statement, 'if...elif...else' Statement
- **Revision of Term 1 Practical Assignments based on Spreadsheet.**

1st Periodic test (July)

Portion: Chapter 1 (Network)&2 (Number System)(Theory)

Half Yearly Examination: All Chapters of Term 1

TERM 2

THEORY

- **Image Editing in GIMP [3 Theory]**
Introduction to Image Editing, Basic terms used in GIMP, GIMP on Computer, Creating a new file, Opening an existing file, Saving a new image, Tool Box, Foreground and Background Color, Additional Effects.
- **Animation on Images [3 Theory]**
To take screenshot, Brightness, Contrast, Cropping an Image, Red Eye Removal, Layers, Animation in GIMP
- **Office Package [4 Theory]**
Introduction, Features of Office Packages, Word Processor, Mail Merge, Spreadsheet Package, Working with Calc, Cell Referencing, Functions, Autofill, Sorting, Presentation Package, Inserting Multimedia Objects, Animation in Presentation, To set timings for a slide show.
- **Ethics & Safety Measures [3 Theory]**
Introduction, Right to Privacy, Intellectual Property Right, Plagiarism, Cyber Bullying, Hacking, Phishing, Spamming, Software Piracy, Internet (Advantages & Disadvantages of Internet), Safety Measures, Digital Footprint
- **What's Artificial Intelligence [2 Theory]**

PRACTICAL ASSIGNMENTS

- **Image Editing in GIMP [3 Practical]**
Creating a new file, Opening an Existing file, Saving a new file, Drawing shapes using different tools, To set Foreground & Background color, Modify the object using additional effects.
- **Animation on Images [4 Practical]**
To take Screenshot, Applying effects in an image (Brightness/Contrast), Cropping an Image, Red Eye Removal, To add Layers, Drawing an image using Layers, Animation in GIMP(Spinning Globe, Waves etc.).
- **Office Package [6 Practical]**
Working with Office Package like: Word Processor (Inserting Page Number, Header & Footer), Mail Merge, Spreadsheet Package (Calculation using Cell referencing like: Relative, Absolute and Mixed referencing, Using Functions, Auto Fill, Sorting), Presentation Package (Inserting Multimedia Objects in Slide, Creating animation in Presentation, Set Timing for a Slide Show)

2nd Periodic Test (December)

Portion: Chapter 5(Image Editing in GIMP) & 6 (Animation on Images) (Theory)

Annual Examination: All Chapters of Term 2