NAVY CHILDREN SCHOOL, DELHI

COMPUTER SPLIT UP SYLLABUS 2024 - 25 (Class VII)

Month	Chapter	Contents	Objectives	Activities
APRIL/MAY	1. Computer — Hardware Components No. of Periods 4	- Computer system - Hardware components - External and internal hardware - Storage and other devices	**Students will be able to:** - recognize different components of a computer like SMPS, ports, MODEM and disk drives - explain the usage of different	**Lab Activity:** - Take an old CPU and open it. Observe the different parts inside it and list all the parts on your notebook. Note the placement of the different components on motherboard. - Make a Powerpoint presentation for internal hardware like
JUNE/JULY	2. An Introduction to Number Systems No. of Periods 4	- Decimal number system - Binary number system - Octal number system - Hexadecimal number system - Binary arithmetic	**Students will be able to:** - explain the need for Number Systems - list the uses of various Number Systems in computer learning - convert a value from decimal number system to binary and vice versa - citing examples of binary, decimal conversion and demonstrating them	**Lab Activity:** - Make a Powerpoint presentation on different types of number systems. You can also include slides on conversion of numbers in different number systems.
	3. Computer VIRUS No. of Periods 3	- Computer VIRUS - Types of computer VIRUS - Measures to prevent VIRUS attack - Symptoms of VIRUS attack - Forms of VIRUS attack - AntiVIRUS softwares - Firewall	**Students will be able to:** - define a virus - list different types of viruses - follow standard measures to prevent virus attack - identify symptoms of virus attack on a computer - use a suitable antivirus software	**Lab Activity:** - In your computer lab, run an antivirus software in a computer and check VIRUS. Find out the process to clean or delete the VIRUS if present. In your class, discuss about the harmful effects of different computer VIRUSES.
AUGUST	4. Ethics and Safety Measures in Computing No. of Periods 4	- Advantages of using internet - Disadvantages of using internet - Ethics in computing - Unethical practices - Safety measures while using computers and internet - Digital footprints	**Students will be able to:** - follow ethics in computing - identify online threats - identify positive and negative uses of social media - show responsible behaviour when using computer and internet - become responsible digital citizens	**Lab Activity:** - Make a chart showing computer lab rules and display it in the class. This can help us in safe computing. - In your class, discuss on ethical and unethical practices related to internet use.
SEPTEMBER / OCTOBER	5. Spreadsheets - An Introduction No. of Periods 6	- Spreadsheet - Microsoft Excel (MS Excel) - Features of Microsoft Excel - Entering data in MS Excel - Performing calculations in MS Excel - Selecting cells, changing cell contents - Undo and Redo features - Copy and move data	**Students will be able to:** - define a spreadsheet - list the features and components of a spreadsheet - create a worksheet - identify the components of spreadsheet window - differentiate between a workbook and a worksheet	**Lab Activity:** - In your computer Lab, make an excel sheet showing total marks scored by 10 students. You can use formula for total marks. - Discuss on advantages of spreadsheet and workbook in your class.

NOVEMBER	**6. MS Access –Database Management System** **No. of Periods 4**	- Database - Uses of database - Create and save a database - Primary key - Querying a database	**Students will be able to:** - define database and DBMS - list real-life examples of databases - design a database - describe different data types - define a primary Key - create a table, insert data, save and edit a table	**Lab Activity:** - Make a telephone directory in MS access. - Make a student registration record using any DBMS application.
DECMBER/ JANUARY	**7. HTML – Advanced Features** **No. of Periods 6**	- Making a website - HTML – An introduction - HTML Tags - Titles and Footers - Setting Background - Tables in HTML	**Students will be able to:** - add advanced features to a web page, like lists, images, links, tables and forms	**Lab Activity:** - Write an HTML program for your personal introduction using bold letters, tables and bullets.
FEBRUARY	**8. Programming Languages - An Introduction to Python** **No. of Periods 4**	- Computer Programming - Introduction to Python - Uses of Python - Python Programming	**Students will be able to:** - understand the importance of programming languages, basic concepts of Python and programming on Python	**Lab Activity:** Write programs in Python to do the following: - To input 5 numbers and check their average - To find the sum of two numbers - To find the sum of digits in a 5 digit number