

# Gopi Birla Memorial School 2024-2025

**GRADE : 11 COMPUTER SCIENCE**

**MRS. JAINI SHAH**

## **ANNUAL PLAN**

<b>MONTH</b>	<b>MAIN CONTENT/CHAPTERS</b>	<b>ACTIVITIES</b>
June	Chapter 1: Computer system Overview Chapter 6: Python Introduction	Basic computer organization: description of a computer system and mobile system, CPU, memory, hard disk, I/O, battery.
July	Chapter 2: Data Representation Chapter 8: Data Handling	Features of Python, Python Character Set, Token & Identifiers, Keywords, Literals, Delimiters, operators.
August	Chapter 9: Flow of control  Chapter 7: Python Fundamentals	Basics of Computational Thinking: Decomposition, Pattern Recognition/Data representation, Generalization/Data Abstraction and algorithm. Knowledge of data types and operators: accepting input from the console, assignment statement, expressions, operators and their precedence.
September	Revision for Terminal Examination	
October	Chapter 11: Lists Manipulation	Strings: Traversing, compare, concat, substring.
November	Chapter 12: Tuples	Lists, tuples and dictionary: finding the maximum, minimum, counting the frequency of elements in a list using a dictionary. Introduce the notion of accessing elements in a collection using numbers.
December	Chapter 13: Dictionary	tuples : linear search on list/tuple of numbers, and Introduce the notion of accessing elements in a collection using numbers.

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January	Chapter 15: Cyber Safety  Chapter 16: Online Access and Security	Introduce the notion of accessing elements in a collection using names. Sorting algorithm: bubble Cyber safety: safely browsing the web, identity protection, confidentiality, social networks, cyber trolls and bullying
February	Chapter 17: Cyber Laws and Ethics	Safely communicating data: secure Connections, eavesdropping, and phishing and identity verification. Safely accessing websites: adware, malware, viruses, Trojans