



## Kendriya Vidyalaya (Embassy of India School) Moscow

### SPLIT-UP SYLLABUS 2024-25

Class	XI	Subject	INFORMATICS PRACTICES		
Sr. No	Month	Number of working Days	Description (Title of the chapter, Topics /Units)	Suggestive Practical, Project, MDP, Tests & Assignments	Suggested methodology to be used (Like PBL/AIL/CCT/ Experiential learning)
01	June 2024	22	<b>Unit I :</b> Introduction to Computer System Introduction to computer and computing: evolution of computing devices, components of a computer system and their interconnections, Input/output devices. Computer Memory: Units of memory, types of memory – primary and secondary, data deletion, its recovery and related security concerns.	*Anatomy of Computer	*Presentation *Discussion * PBL (Problem-Based Learning)
02	July 2024	19 21	Software: purpose and types – system and application software, generic and specific purpose software.	*Software Systems	*Presentation *Demonstration
			<b>Unit II:</b> Introduction to Python Basics of Python programming, Python interpreter - interactive and script mode, the structure of a program, indentation,	<ul style="list-style-type: none"> <li>●Input a welcome message and display it.</li> <li>●Input two numbers and display the larger / smaller number.</li> </ul>	*Presentation *Demonstration * CCT

			identifiers, keywords, constants, variables		* PBL (Problem-Based Learning)
03	August 2024	19	Types of operators, precedence of operators, data types, mutable and immutable data types, statements, expressions, evaluation and comments, input and output statements, data type conversion, debugging	<ul style="list-style-type: none"> <li>● Input marks of a student and find the division.</li> <li>● Other Practical Questions (follow CBSE syllabus Inf. Practices Practical List)</li> </ul>	*Presentation *Demonstration * PBL (Problem-Based Learning) * Experiential learning
04.	September 2024	21	Control Statements: if-else, if-elif-else, while loop, for loop  Lists: list operations - creating, initializing, traversing and manipulating lists, list methods and built-in functions- – len(),list(),append(),insert(), count(),index(),remove(), pop(), reverse(), sort(), min(),max(),sum() <b>Periodic Test-I(Syllabus up to LIST)</b>	<ul style="list-style-type: none"> <li>● Practical Questions (follow CBSE syllabus Inf. Practices Practical List)</li> </ul>	*Presentation *Demonstration * PBL (Problem-Based Learning) * Experiential learning
05.	October 2024	19	Dictionary: concept of key-value pair, creating, initializing, traversing, updating and deleting elements, dictionary methods and built-in functions- dict(), len(), keys(), values(), items(), update(), del(), clear()	<ul style="list-style-type: none"> <li>● Practical Questions (follow CBSE syllabus Inf. Practices Practical List)</li> </ul>	*Presentation *Demonstration * PBL (Problem-Based Learning) * Experiential learning
06.	November 2024	21	<b>Unit III:</b> Database concepts and the Structured Query Language Database Concepts: Introduction to database concepts and its need, Database Management System. Relational data model: Concept of domain, tuple, relation,	<ul style="list-style-type: none"> <li>● Practical Questions (follow CBSE syllabus Inf. Practices Practical List)</li> </ul>	*Presentation *Demonstration * PBL (Problem-Based Learning) * Experiential learning

			candidate key, primary key, alternate key Advantages of using Structured Query Language, Data Definition Language, Data Query Language and Data Manipulation Language, Introduction to MySQL, creating a database using MySQL, Data Types Data Definition: CREATE DATABASE, CREATE TABLE, DROP, ALTER <b>Half Yearly /Mid-Term Examination (Syllabus up to Database Keys)</b>		
07.	December 2024	21	Data Query: SELECT, FROM, WHERE with relational operators, BETWEEN, logical operators, IS NULL, IS NOT NULL Data Manipulation: INSERT, DELETE, UPDATE	● Practical Questions (follow CBSE syllabus Inf. Practices Practical List)	*Presentation *Demonstration * PBL (Problem Based Learning) * Experiential learning
08.	January 2025	20	<b>Unit IV</b> : Artificial Intelligence, Machine Learning, Natural Language Processing, Immersive experience (AR, VR), Robotics, Big data and its characteristics, Internet of Things (IoT), Sensors, Smart cities, Cloud Computing and Cloud Services (SaaS, IaaS, PaaS); Grid Computing, Block chain technology. <b>Periodic Test-II (Syllabus up to 4<sup>th</sup> Unit)</b>	● Group Discussion on Society Laws and Ethics	*Presentation *Demonstration * Dramatization on Society, Law and Ethics * Experiential learning
09.	February 2025	22	<b>Submission of Practical and Project Works <i>Final Practical Examination.</i></b> <b>Revision work for Session Ending</b>	Project Work	CCT

10.	March 2025	-	<i>Session Ending Examination 2025</i>		
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